

PROFESSIONAL WEATHER STATION

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Your Professional Meteotime Weather Station consists of:

- 4-Day Weather information, and
- Wireless Indoor/Outdoor measuring device for Wind, Rain, Thermo-hygrometer and the atmosphere pressure.

This package comes with

- Main Display Unit (Main Console)
- Wireless Wind-meter
- Wireless Rain-Guage
- Wireless Thermohygrometer

Key Features:

- Weather Status for today and coming three days for 470 cities
- Rain/Snow/Hail Probability for Today
- Wind Speed and Wind Direction for Today
- five channel outdoor 433Mhz wireless Thermo-hygrometer
- Indoor Thermo-hygrometer
- Wireless Outdoor Wind speed and direction
- Wireless outdoor Rain Guage
- Sunrise and sunset display
- Moon phase
- History Record of wireless outdoor Temperature, Humidity, and atmosphere pressure
- Regional Day-time temperature and Night-time Temperature information.
Night-time temperature for the 4th day will not be displayed.
- Critical Weather Alert
- Radio-controlled Clock and Calendar
- Time-zone setting
- Blue Backlight

Section 1 will depict on setting up to display the 4-Day Weather information that broadcasted via the stations for radio-controlled clocks HBG (located in Switzerland) and DCF (located in Germany)

Section 2 will depict on setting up to display the measuring data from Wireless Indoor/Outdoor device for Wind, Rain, Thermo-hygrometer and the atmosphere pressure.

Section 1

Setting Up Meteotime Weather Station

1.0 MUST READ BEFORE GETTING START

Your Meteotime Weather Station is different to traditional weather stations which measure the prevailing conditions only, the data of this weather station is based on the METEOTIME which is worked out on a daily basis by highly professional meteorologists using state-of-art instruments.

The Meteotime Weather Station is engineered in such a way that it is able to receive the coded METEOTIME signal containing the weather information. The information is broadcasted via the stations for radio-controlled clocks HBG (located in Switzerland) and DCF (located in Germany). For this reason, your Meteotime Weather Station is also a radio-controlled clock with all the known advantages, such as always showing the exact time, and automatic change to daylight saving time in winter and in summer.

You are able to receive weather forecasts for 60 meteorological regions within Europe for up to 4 days in advance, and offer 2-day-advance forecasts for an additional 30 regions.

WHAT DOES IT TAKE TO GET GOOD RECEPTION?

Similar to wireless signals like the mobile phone network or Radio/TV broadcasts, it is possible that the Meteotime Weather Stations do not receive signals all the time and everywhere. The following are some tips you should follow by all means to make sure that your device works properly:

The location for Meteotime Weather Station is very important. For this reason we have equipped all of them with an innovation test function (the TEST button) which enables you test the quality of reception in your environment and to place the device where the best conditions prevail.

Try your reception by testing your Meteotime Weather Station as stated in the manual. To do this, in the room you want to install the device, please turn on all the potential sources of interference (for example, a TV set). Then put the Meteotime Weather Station in the place and direction you want it to be, but always at least in one meter from the potential source of interference.

Watch the symbol GOOD RECEPTION or BAD RECEPTION on the display. Once you have found the right location for GOOD RECEPTION, you may leave the Meteotime Weather Station there, it will collect its data by radio controlled signal. Within a few minutes time and the date will appear. However, the transfer of the very large amount of data (forecast for all regions and days) will take much longer. To completely receive all data will take up to 24 hours from the time of the initial setup.

POTENTIAL SOURCES of INTERFERENCE

With all Meteotime Weather Stations, we should take measures to provide best possible radio reception. HBG and DCF are long wave stations with a broad reach (for example, approximate 1500km for the DCF station). However, as with a long wave radio station, interference may occur which is often caused by the following influences:

- In buildings with lots of concrete, metal parts, and the electrical equipment you may get reception problems (for example, in shopping centers and at exhibitions).
- Electronic equipment such as TVs, computers, household machines, etc., or transformers, power lines, radio transmitters, and trains are potential sources of interference.
- Atmospheric influences might affect the radio waves.
- The distance from the station, and also the geographic conditions (mountains, etc.) also affect the reception. Due to their great distance from the station, areas like Southern Italy or Northern Scandinavia are critical.
- So-called (dead-spots) which make reception impossible can appear everywhere
- There is less interference in rural area than in heavily built-up urban ones.
- On principle at night the sources of interference are less active, consequently reception is better than during the day.
- Weak batteries in the device will lower the quality of reception.

DATA TRANSFER

METEOTIME sends the data during precisely defined time slots in accordance with UTC. (UTC, i.e. for Central Europe during the winter UTC+1, during the summer UTC+2; for Great Britain and Portugal during the winter UTC, during the summer UTC+1)

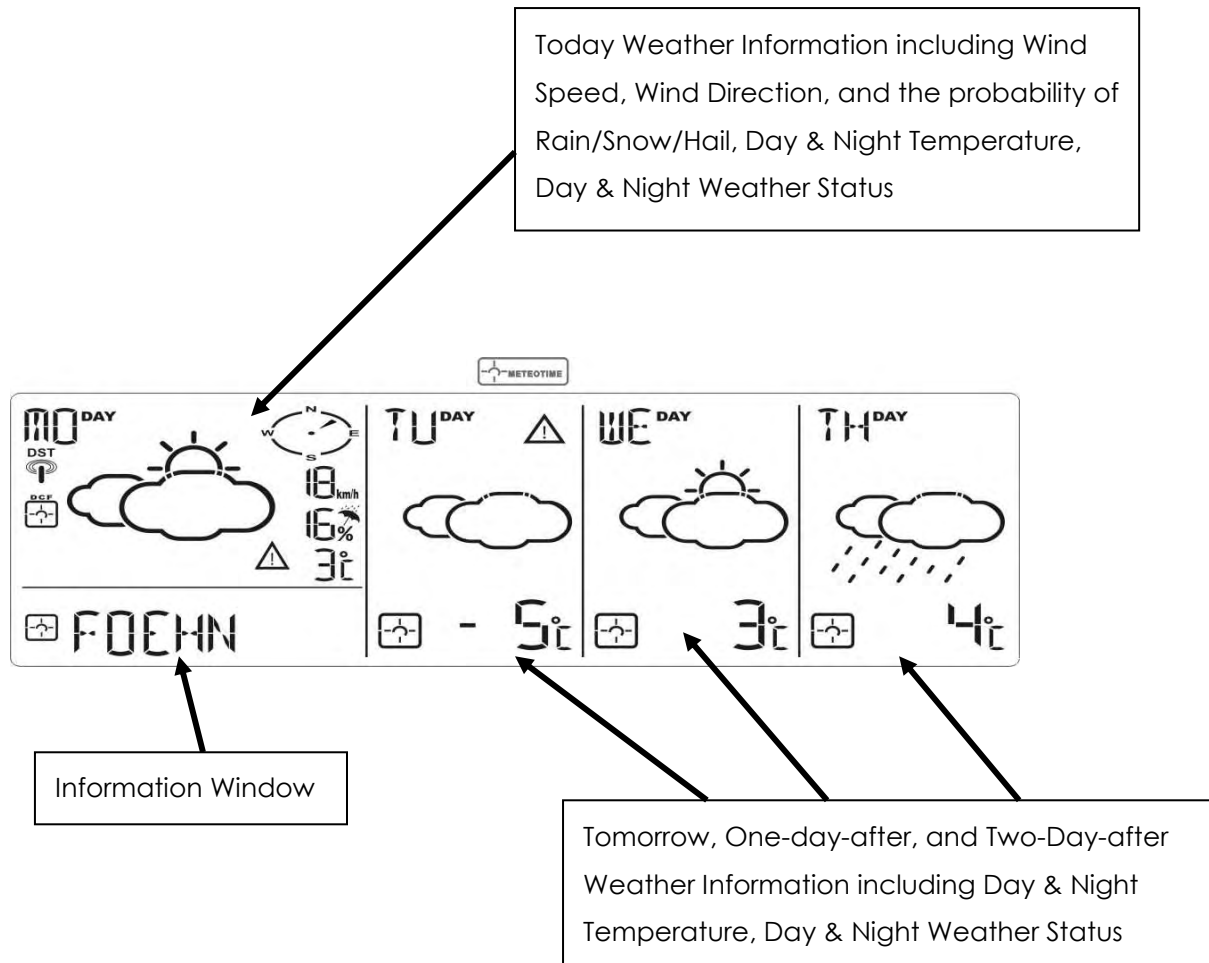
Transmission times (UTC)	Forecast for
10:00 p.m. – 03:59 a.m.	the actual (new) day (TODAY)
04:00 a.m. – 09:59 a.m.	the next day (TOMORROW)
10:00 a.m. – 03:59 p.m.	the following day (the day after TOMORROW)
04:00 p.m. – 06:59 p.m.	the day following this (Two days after TOMORROW)
07:00 p.m. – 09:59 p.m.	the 30 additional regions

In the even that the reception during the above time slots is completely or at times interfered with or has broken down, these forecasts, or parts of them, will be missing.

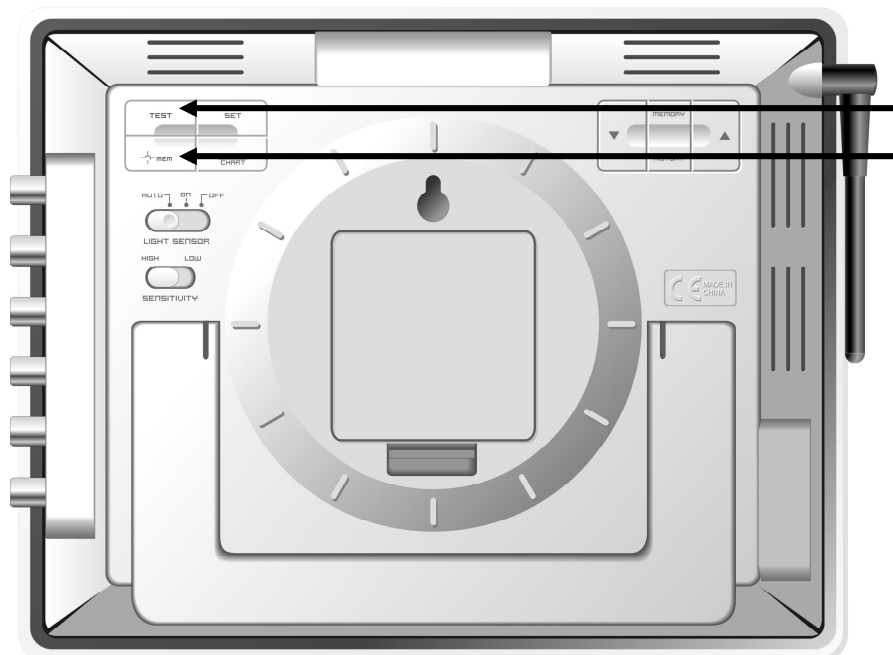
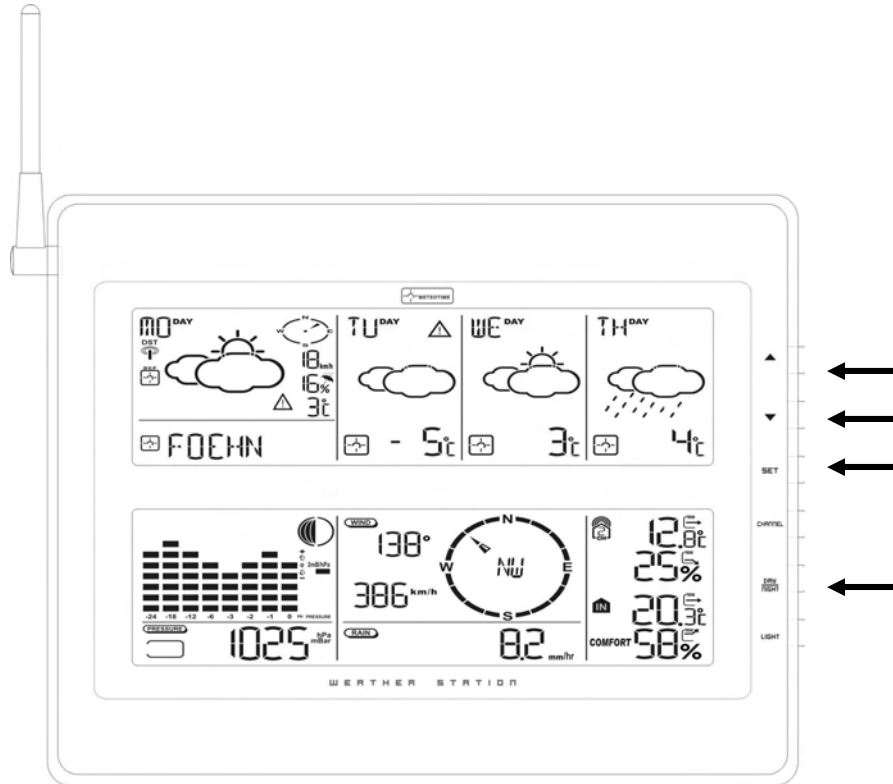
1.1 INTRODUCTION

The Meteotime Weather Station LCD display shows:

- Today Weather Information Window
- Tomorrow, One-day-after, and Two-day-after Weather Information
- Information Window which shows Time & Date, Sunrise & Sunset, Cities, and Critical Weather Information Description.



There are total 4 buttons at the Right side of main Unit and 2 buttons at the backside on the main station for Setting up the Meteotime Weather Section, namely:



SET

- Selected City ⇄ Time + Date ⇄ Sunrise + Sunset
- Each press of [SET] will display the selected City, Time + Date or Sunrise + Sunset
- Press and HOLD [SET] for 3 second to select your <1> Country, <2> Time Zone, <3> Language, <4> Contrast of the LCD display

DAY / NIGHT

- Critical Whether Information ⇄ Time + Date ⇄ Day/Night Weather Status Change



- increasing the value during setting
- Chose one of the pre-selected cities



- decreasing the value during setting
- Chose one of the pre-selected cities

TEST ✓

- Find the place for the device which has a good reception
- Add the city into the list of your desired cities OR Remove the city out of the list of desired Cities
- Edit your home town



- The personalized a city name setting

1.2 GETTING START

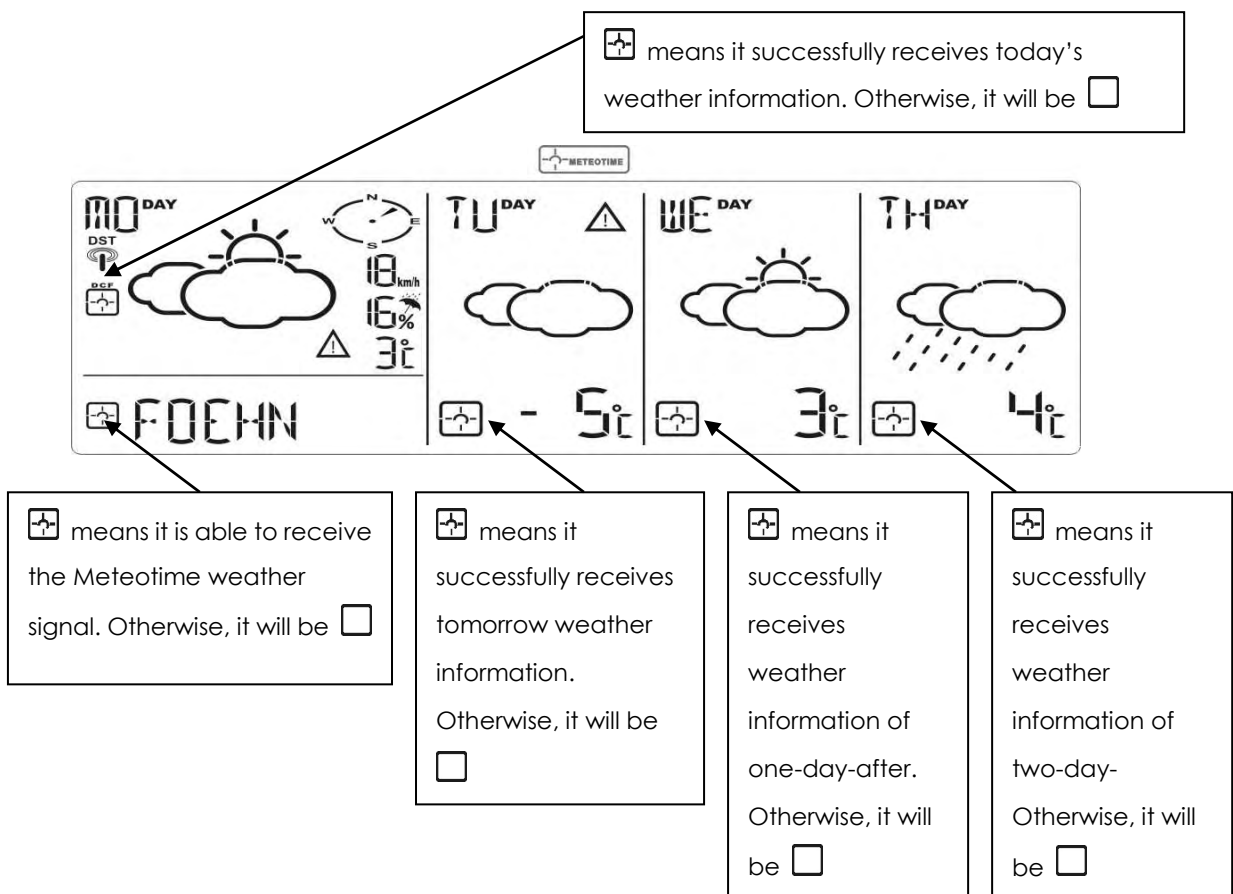
- Insert the 4 batteries for remote units, and then insert batteries for the main unit.
- The main unit will automatically scan for the radio-controlled clock signal and the Meteotime Weather signal.
"SUCHE SIG." (means Search Signal) will show in the INFORMATION WINDOW.

The time and date signal will be received in a few minutes. Since there is a large amount of Weather information for all regions and days, the unit needs about 24 hours from the time of the initial setup to complete the reception of all data

- After the time and date signal is being received successfully, the display shows "SELECT COUNTRY" and then "FRANKFURT" as default city in the information window.

To change the Country and the City please see the information below.

- If the unit is able to receive the Meteotime signal successfully, the Meteotime icon  is appeared in the second row of display. Otherwise, the Meteotime will be .



In the event the Meteotime icon change to , that means there are potential sources of interference on the unit. The sources of interference may come from the electronics equipment such as TV-set, computers, household machines etc. It may also be due to lots of concrete, metal parts and electrical equipment in the building. It may also be due to your living area if it is very far away from the Radio-controlled clock tower.

By the first time you power up this product, the language default setting is in German Language. In order to change it

into another language such as English, Spanish, French, Italian, Dutch, or Swedish, please follow the setup as below.

When you put in the batteries for the first time, wait until the Main Unit receives

- " SUCHE SIG. " (meaning in English is SEARCH SIGNAL); it will display in the INFORMATION WINDOW
- After several second, " LAND EINST" (meaning in English is COUNTRY) is shown in the INFORMATION WINDOW
- Press [SET] and " ZONE +00 H " is shown in the INFORMATION WINDOW
- Now press [SET] again and the " LANGUAGE " will be shown in the INFORMATION WINDOW, then press [▲] or [▼] to select your desired language. There are total seven languages to select, namely German, English, Spanish, French, Italian, Dutch, Swedish
- Press [SET] two times to exit the setup.

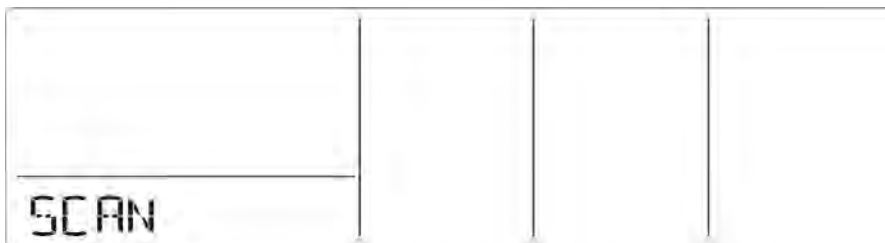
If you skip the above-mentioned step, the INFORMATION WINDOW will show the default city FRANKFURT.M. You can change to your desired language in the following steps.

- press and hold [SET] for 3 seconds, " LAND EINST " (meaning in English COUNTRY) is shown in the INFORMATION WINDOW.
- Press [SET] again and " ZONE +00 H " is shown in the INFORMATION WINDOW
- Press [SET] again and " LANGUAGE " will be show in the INFORMATION WINDOW. Press [▲] or [▼] to select your desired language. There are total seven languages to select, namely German, English, Spanish, French, Italian, Dutch, Swedish
- Press [SET] two times to exit the setup.

1.3 Operation Instruction

You are able to use the TEST function to look for a better location

- Press TEST button, "SCAN" is shown in the Information Window.



- Pick the unit to find a good location.
-  flashing: The test is running and the Meteotime signal reception is good. You are able to leave the device in this position.
-  flashing: The test is running and the Meteotime signal reception is poor. You need to keep on looking for a better location.
- The test lasted for around 1 minute. You can restart the test with the [TEST] key at any time, and also discontinue the test by press the TEST key.

SWITCH CITY ↔ SUNRISE & SUNSET TIME ↔ TIME & DATE

- After inserting the batteries, the weather station searches for the Radio controlled Time signal as well as the Meteotime signal. After it has successfully received the Meteotime signal, the display shows in the information window "Select Country". After a few more minutes, the information windows the default city "FRANKFURTM".
- You are able to press [SET] to switch from the display of the City to Sunrise & Sunset time OR Time & Date for Frankfurt am Main.

FRANKFURTM ← [set] →  6:19  19:38 ← [set] → 14:23 26° 5'

SELECT THE COUNTRY AND CITY / CITIES

- Press and Hold [SET] for 3 second, in the information window, COUNTRY is shown, and then press [▲] or [▼] key to select the country. For example, you have selected the country name such as  / GER means Germany will be shown in the information window.
- Press [SET] key to confirm the Country (let's said we select Germany right now), and then the information window will show CITY.

- Then, press [▲] or [▼] key to select the city, and the city name will be shown in the information window such as **FRANKFURT** means the city 'Frankfurt am Main'
- If the city 'Frankfurt am Main' is your selection, then press [TEST √] key to confirm. A √ will be shown on top of your selected city, and it will be **FRANKFURT** and 'Frankfurt am Main' will store into your personal memory list
- Then, you are able to press [▲] or [▼] key to select more cities, and then press [TEST √] key to confirm. You are able to select maximum FIVE cities to display. If you want to add more cities, then **MEMFULL** will show in the Information Window.

OR

press [SET] KEY to quit, and **EXIT** will shown at the information window.

REMARK: If you have skip the city selection in the first time you power up the unit, the product will default select Frankfurt am Main as your selected city.

DISPLAY MORE CITIES INFORMATION.

If you have selected more than one city, let said you have select Frankfurt am Main, Köln and Münster in your desired city list, then you are able to press [▲] or [▼] key when the Information Window shows the CITY NAME (Press SET until it displays the City Name).

FRANKFURT ← [▲/▼] → **KÖLN** ← [▲/▼] → **MÜNSTER**

When you selected the other city, the sunrise and sunset time, and weather information will be of this selected city.

REMOVE YOUR SELECTED THE CITY / CITIES OUT OF MEMORY LIST

- Press and Hold [SET] for 3 second, **COUNTRY** is shown in the Information Window, then press [▲] or [▼] key to select the country. For example, you have selected The country name such as **D/GER** means Germany
- Press [SET] key to confirm the Country (let's said we select Germany right now), and then the information window will show **CITY**.
- Then, press [▲] or [▼] key to go to your selected city, let's said 'Frankfurt am Main', and the **FRANKFURTM** will show in the information window.
- Press [TEST √] key to remove the √, and this city is successful to remove out of your list of preference cities you have selected.
- Then, you are able to press [▲] or [▼] key to select more cities, and then press [TEST √] key to remove your selected cities. OR
Press [SET] KEY to quit, and **EXIT** will shown at the information window. After 4 second, it will go to the City-Date-Time Mode.

PERSONALIZED A PLACE NAME

- Press and Hold [SET] for 3 second. In the information window, **COUNTRY** is shown, and then press [▲] or [▼] key to select the country. Let's said you have selected the country Germany which is represented in **D/GER**.
- Press [SET] key to confirm the Country (let's said we select Germany right now), and then the information window will show **CITY**.
- Then, press [▲] or [▼] key to select the city, and the city name will be shown in the information window such as **FRANKFURTM** means the city 'Frankfurt am Main', and you would like to enter a new city which is near the region of Frankfurt am Main.
- Press the 'MEM' key ; a cursor flashes on the first position of the Information Window

Then following input commands then apply:

KEY	Function
-----	----------

'▲' or '▼'	Selection of a letter
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SET	<1> Accept the selected letter and jumps to the next position. OR <2> If you have not entered any letter (in other words, if only the cursor is flashing at the last position), confirm the entry with this key and your place will also be included in the memory with immediate effect
-----	--

TEST	One position back in the data entry process
------	---

** The place that you have selected to enter your own description will still exist under its own name.

- Press [SET] key to confirm and exit

SET THE TIME ZONE, LANGUAGE and CONTRAST

- Press and Hold [SET] for 3 second, **COUNTRY** is shown in the Information Window.
- Press [SET] again, then **ZONE +00HR** is shown in the Information Window, press [▲] or [▼] key to adjust the time zone.
- Press [SET] again, then the LANGUAGE will be shown in the Information Window, press [▲] or [▼] key to select your desired language. There are total Seven Language for selection, namely German, English, Spanish, French, Italiano, Dutch, Swedish
- Press [SET] again, then **CONTRAST: 3** is shown in the Information Window, press [▲] or [▼] key to adjust the LCD contrast Level.
- Press [SET] again and **EXIT** will shown at the information window. After 4 second, it will go to the City-Date-Time Mode

Remark: If you do not have any selection into the Setup mode up to 60 seconds, it will automatically exit the setup mode. The Information Window will show City / Sunrise & Sunset Time / Time & Date.

SWITCH DAY WEATHER INFORMATION ↔ NIGHT WEATHER INFORMATION

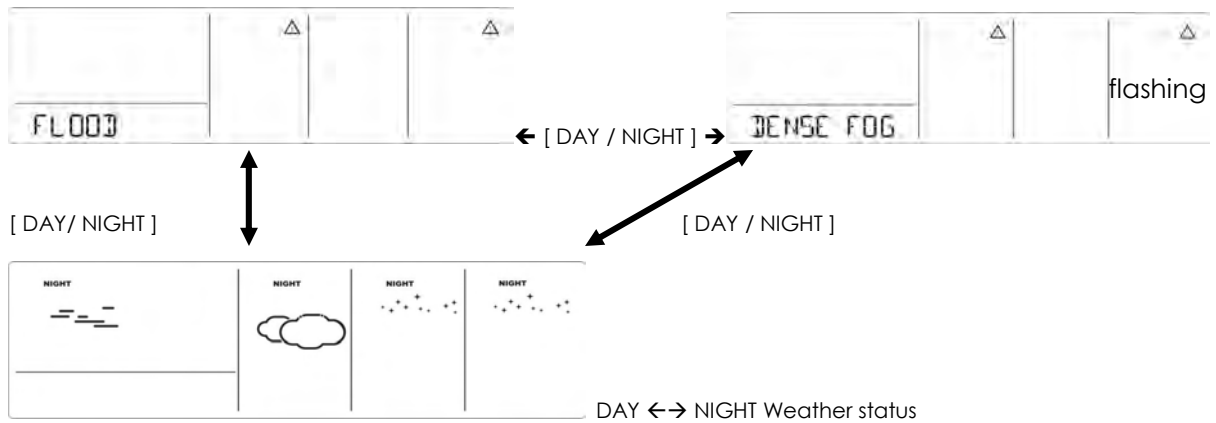
The device is able to base on the SUNRISE time and SUNSET time to automatically switch to DAY-WEATHER and NIGHT-WEATHER respectively. The unit is preset to show DAY-WEATHER after sunrise time, and NIGHT-WEATHER after SUNSET time. The user can press the [DAY / NIGHT] button to see the DAY-Weather (for 10-second period) if currently show the NIGHT-WEATHER, or vice verse.



CRITICAL WEATHER INFORMATION

Meteotime Weather signal contains the Critical Weather Information such as Gust, Frozen Rain, Heavy Snow, Thunder, Strong UV, Dense Fog, Bise, Mistral, etc. for today and coming three days. A critical weather alert signal  will be turned on in case that day has critical weather that the user must know.

Sometimes there are more than one critical weather information in the 4-days. Press [DAY / NIGHT] key to read the critical weather information one by one. The special icon of the day will be flashed when you read the Information.

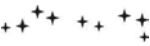
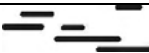
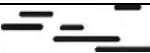
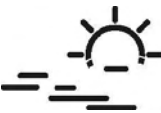
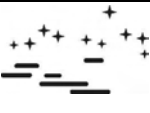


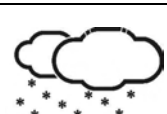
- Press [SET] key to go back to the display of **CITY ↔ SUNRISE & SUNSET TIME ↔ TIME & DATE**. If you would like to read the Weather Information in the information window, then press [DAY / NIGHT] Key to display Day ↔ Night Weather information and also the Critical Weather Information.

If no key is pressed, the critical weather information will be toggle to display, so as to make sure you are aware of the critical weather details

1.4 WEATHER STATUS

There are total 15 weather status for Day and 15 weather status for Night.

Significance	Day	Night
Sunny (Clear at night)		
Light Cloudy		
Mostly Cloudy		
Overcast		
Stratus Clouds		
Fog		
Showers		
Light Rain		

Significance	Day	Night
Heavy Rain		
Frontal Storms		
Heat Storms		
Sleet Showers		
Snow Showers		
Sleet		
Snow		

1.5 CITIES

There are a total of 470 cities information included in memory. The cities of the name with * will only have 2-day weather status.

COUNTRY NAME	CITY FULL NAME	CITY NAME IN SHORT FORM THAT SHOWN ON THE DISPLAY	REGION
ANDORRA	ANDORRA LA VELLA*	AND.LA.VELL*	70
AU/AUSTRIA	ST PÖLTEN	ST.PÖLTEN	50
AU/AUSTRIA	BISCHOFSHOFEN	BISCHOFSHO	48
AU/AUSTRIA	BREGENZ	BREGENZ	48
AU/AUSTRIA	EISENSTADT	EISENSTADT	49
AU/AUSTRIA	GRAZ	GRAZ	46
AU/AUSTRIA	INNSBRUCK	INNSBRUCK	47
AU/AUSTRIA	KITZBÜHEL	KITZBÜHEL	48
AU/AUSTRIA	KLAGENFURT	KLAGENFURT	46
AU/AUSTRIA	LANDECK	LANDECK	47
AU/AUSTRIA	LIENZ	LIENZ	46
AU/AUSTRIA	LINZ	LINZ	26
AU/AUSTRIA	SALZBURG	SALZBURG	48
AU/AUSTRIA	SCHLADMING	SCHLADMING	48
AU/AUSTRIA	VILLACH	VILLACH	46
AU/AUSTRIA	WELS	WELS	26
AU/AUSTRIA	WIEN	WIEN	49
AU/AUSTRIA	ZELTWEG	ZELTWEG	46
AU/AUSTRIA	ZWETTL	ZWETTL	50
B/BELGIUM	ANTWERPEN	ANTWERPEN	6
B/BELGIUM	BRUGGE	BRUGGE	6
B/BELGIUM	BRUSSEL	BRUSSEL	6
B/BELGIUM	CHARLEROI	CHARLEROI	6
B/BELGIUM	GENT	GENT	6
B/BELGIUM	LIEGE	LIEGE	6
B/BELGIUM	NAMUR	NAMUR	6
B/BELGIUM	VERVIERS	VERVIERS	13
CH/SUISSE	ST.GALLEN	ST.GALLEN	35

CH/SUISSE	AARAU	AARAU	32
CH/SUISSE	ADELBODEN	ADELBODEN	33
CH/SUISSE	ALTDORF	ALTDORF	35
CH/SUISSE	BASEL	BASEL	45
CH/SUISSE	BELLINZONA	BELLINZONA	38
CH/SUISSE	BERN	BERN	32
CH/SUISSE	BIENNE	BIENNE	32
CH/SUISSE	BRIG	BRIG	34
CH/SUISSE	CHUR	CHUR	36
CH/SUISSE	DAVOS	DAVOS	36
CH/SUISSE	DELEMONT	DELEMONT	11
CH/SUISSE	FRAUENFELD	FRAUENFELD	32
CH/SUISSE	FRIBOURG	FRIBOURG	31
CH/SUISSE	GENEVE	GENEVE	31
CH/SUISSE	GLARUS	GLARUS	35
CH/SUISSE	GRINDELWALD	GRINDELWLD	33
CH/SUISSE	INTERLAKEN	INTERLAKEN	33
CH/SUISSE	LA CHAUX-DE-FONDS	LACHAUX-D.F	11
CH/SUISSE	LAUSANNE	LAUSANNE	31
CH/SUISSE	LIESTAL	LIESTAL	45
CH/SUISSE	LOCARNO	LOCARNO	38
CH/SUISSE	LUGANO	LUGANO	38
CH/SUISSE	LUZERN	LUZERN	32
CH/SUISSE	MARTIGNY	MARTIGNY	34
CH/SUISSE	MONTREUX	MONTREUX	31
CH/SUISSE	NEUCHATEL	NEUCHATEL	31
CH/SUISSE	SAMEDAN*	SAMEDAN*	86
CH/SUISSE	SARNEN	SARNEN	35
CH/SUISSE	SCHAFFHAUSEN	SCHAFFHAUS.	32
CH/SUISSE	SCHWYZ	SCHWYZ	35
CH/SUISSE	SION	SION	34
CH/SUISSE	SOLOTHURN	SOLOTHURN	32
CH/SUISSE	STANS	STANS	35
CH/SUISSE	ZERMATT*	ZERMATT*	88
CH/SUISSE	ZUG	ZUG	32
CH/SUISSE	ZÜRICH	ZÜRICH	32
CZ/CZ REP	BRNO	BRNO	50

CZ/CZ REP	BUDEJOVICE	BUDEJOVICE	50
CZ/CZ REP	CHEB	CHEB	50
CZ/CZ REP	DECIN	DECIN	51
CZ/CZ REP	HAVLICKAV BROD	HAVL_BROD	50
CZ/CZ REP	HRADEC/KRA	HRADEC/KRA	50
CZ/CZ REP	OLOMOUC	OLOMOUC	50
CZ/CZ REP	OSTRAVA	OSTRAVA	50
CZ/CZ REP	PLZEN	PLZEN	50
CZ/CZ REP	PRAHA	PRAHA	50
CZ/CZ REP	TEPLICE	TEPLICE	51
D / GER	AACHEN	AACHEN	14
D / GER	AALEN	AALEN	59
D / GER	ANSBACH	ANSBACH	28
D / GER	AUGSBURG	AUGSBURG	25
D / GER	BAD_TÖLZ	BAD_TÖLZ	48
D / GER	BAYREUTH	BAYREUTH	28
D / GER	BERCHTESGADEN	BERCHTESGA	48
D / GER	BERLIN	BERLIN	52
D / GER	BIELEFELD	BIELEFELD	14
D / GER	BITBURG	BITBURG	13
D / GER	BORKUM	BORKUM	19
D / GER	BREMEN	BREMEN	22
D / GER	BREMERHAVEN	BREMERHAVN	19
D / GER	BURGHAUSEN	BURGHAUSEN	26
D / GER	COTTBUS	COTTBUS	29
D / GER	CUXHAVEN	CUXHAVEN	19
D / GER	DONAUESCHINGEN	DONAUESCH.	57
D / GER	DORTMUND	DORTMUND	14
D / GER	DRESDEN	DRESDEN	29
D / GER	DUISBURG	DUISBURG	14
D / GER	DÜSSELDORF	DÜSSELDORF	14
D / GER	EISENACH	EISENACH	30
D / GER	EMDEN	EMDEN	19
D / GER	ERFURT	ERFURT	30
D / GER	ESSEN	ESSEN	14
D / GER	FEHMARN	FEHMARN	24
D / GER	FLENSBURG	FLENSBURG	24

D / GER	FRANKFURT AM MAIN	FRANKFURT.M	12
D / GER	FRANKFURT AN DER ODER	FRANKFURT.O	52
D / GER	FREIBURG	FREIBURG	45
D / GER	FREUDENSTADT	FREUDENST.	57
D / GER	FRIEDRICHSHAFEN	FRIEDRI.HFN	26
D / GER	FULDA	FULDA	37
D / GER	GARMISCH_PATENKIRCHEN	GARMISCH_P	48
D / GER	GIESSEN	GIESSEN	37
D / GER	GÖRLITZ	GÖRLITZ	29
D / GER	GOSLAR	GOSLAR	22
D / GER	GÖTTINGEN	GÖTTINGEN	37
D / GER	GREIFSWALD	GREIFSWALD	24
D / GER	HAGEN	HAGEN	13
D / GER	HALLE	HALLE	29
D / GER	HAMBURG	HAMBURG	19
D / GER	HANNOVER	HANNOVER	22
D / GER	HEILBRONN	HEILBRONN	59
D / GER	HILDESHEIM	HILDESHEIM	22
D / GER	HOF	HOF	30
D / GER	INGOLSTADT	INGOLSTADT	25
D / GER	JENA	JENA	30
D / GER	KAISERSLAUTERN	KAISERSLAU	12
D / GER	KARLSRUHE	KARLSRUHE	12
D / GER	KASSEL	KASSEL	37
D / GER	KEMPTEN	KEMPTEN	26
D / GER	KIEL	KIEL	24
D / GER	KOBLENZ	KOBLENZ	13
D / GER	KÖLN	KÖLN	14
D / GER	KONSTANZ	KONSTANZ	32
D / GER	LANDSHUT	LANDSHUT	25
D / GER	LEIPZIG	LEIPZIG	29
D / GER	LINDAU	LINDAU	48
D / GER	LINGEN	LINGEN	14
D / GER	LÖRRACH	LÖRRACH	45
D / GER	LÜBECK	LÜBECK	24
D / GER	LÜNEBURG	LÜNEBURG	22
D / GER	MAGDEBURG	MAGDEBURG	22

D / GER	MAINZ	MAINZ	12
D / GER	MANNHEIM	MANNHEIM	12
D / GER	MÜNCHEN	MÜNCHEN	26
D / GER	MÜNSTER	MÜNSTER	14
D / GER	NEUBRANDENBURG	NEUBR.BURG	52
D / GER	NÜRNBERG	NÜRNBERG	28
D / GER	OFFENBURG	OFFENBURG	45
D / GER	OLDENBURG	OLDENBURG	22
D / GER	OSNABRÜCK	OSNABRÜCK	14
D / GER	PASSAU	PASSAU	25
D / GER	PFORZHEIM	PFORZHEIM	59
D / GER	PLAUEN	PLAUEN	30
D / GER	POTSDAM	POTSDAM	52
D / GER	REGENSBURG	REGENSBURG	25
D / GER	ROSENHEIM	ROSENHEIM	26
D / GER	ROSTOCK	ROSTOCK	24
D / GER	RÜGEN	RÜGEN	24
D / GER	SAARBRÜCKEN	SAARBRÜCKE	13
D / GER	SIEGEN	SIEGEN	13
D / GER	SIGMARINGEN	SIGMARINGE	26
D / GER	SPIEKEROOG	SPIEKEROOG	19
D / GER	ST_PETER_ORDING	ST_PETER_O	19
D / GER	STUTTGART	STUTTGART	59
D / GER	SYLT	SYLT	19
D / GER	TRIER	TRIER	13
D / GER	TÜBINGEN	TÜBINGEN	59
D / GER	ULM	ULM	25
D / GER	VILLINGEN-SCHWENNINGEN	VILL.-SCHWE.	57
D / GER	WEIDEN	WEIDEN	28
D / GER	WERTHEIM	WERTHEIM	28
D / GER	WILHELMSHAVEN	WILHELMSHA	19
D / GER	WUPPERTAL	WUPPERTAL	14
D / GER	WÜRZBURG	WÜRZBURG	28
D / GER	ZWICKAU	ZWICKAU	30
DK/DENMARK	ALBORG	ALBORG	20
DK/DENMARK	ARHUS	ARHUS	21
DK/DENMARK	BORNHOLM	BORNHOLM	55

DK/DENMARK	ESBJERG	ESBJERG	20
DK/DENMARK	HERNING	HERNING	20
DK/DENMARK	KØBENHAVN	KØBENHAVN	23
DK/DENMARK	NYKOPING	NYKOPING	54
DK/DENMARK	ODENSE	ODENSE	21
DK/DENMARK	RONNE	RONNE	55
DK/DENMARK	SKAGEN	SKAGEN	20
DK/DENMARK	THYBORØN	THYBORØN	20
ES / SPAIN	BARCELONA*	BARCELONA*	69
ES / SPAIN	BILBAO*	BILBAO*	65
ES / SPAIN	FIGUERES*	FIGUERES*	69
ES / SPAIN	GIJON*	GIJON*	74
ES / SPAIN	GIRONA*	GIRONA*	69
ES / SPAIN	IBIZA*	IBIZA*	67
ES / SPAIN	LLORET DE MAR*	LLORET.D.MA*	69
ES / SPAIN	MADRID*	MADRID*	64
ES / SPAIN	MAHON*	MAHON*	67
ES / SPAIN	PALMA DE MALLORCA*	PALMA-D.MA*	67
ES / SPAIN	SEVILLA*	SEVILLA*	71
ES / SPAIN	VALENCIA*	VALENCIA*	68
FL/LICHTEN	VADUZ	VADUZ	48
FRANCE	AGEN	AGEN	0
FRANCE	AJACCIO*	AJACCIO*	73
FRANCE	ALBI	ALBI	5
FRANCE	ALENCON	ALENCON	2
FRANCE	ALES	ALES	8
FRANCE	AMIENS	AMIENS	17
FRANCE	ANGERS	ANGERS	3
FRANCE	ANGOULEME	ANGOULEME	1
FRANCE	ANNECY	ANNECY	11
FRANCE	AUCH	AUCH	0
FRANCE	AURILLAC	AURILLAC	4
FRANCE	AUXERRE	AUXERRE	2
FRANCE	AVIGNON	AVIGNON	8
FRANCE	BAR_LE_DUC	BAR_LE_DUC	2
FRANCE	BASTIA*	BASTIA*	73
FRANCE	BEAUVAIS	BEAUVAIS	17

FRANCE	BELFORT	BELFORT	45
FRANCE	BESANCON	BESANCON	11
FRANCE	BEZIERS	BEZIERS	5
FRANCE	BLOIS	BLOIS	2
FRANCE	BOBIGNY	BOBIGNY	2
FRANCE	BORDEAUX	BORDEAUX	0
FRANCE	BOULOGNE	BOULOGNE	6
FRANCE	BOURG_EN_B	BOURG_EN_B	9
FRANCE	BOURGES	BOURGES	2
FRANCE	BREST	BREST	3
FRANCE	BRIANCON	BRIANCON	10
FRANCE	BRIVE LA GAILLARDE	BRIVE-L-GA	0
FRANCE	CAEN	CAEN	17
FRANCE	CAHORS	CAHORS	0
FRANCE	CANNES	CANNES	43
FRANCE	CARCASSONN	CARCASSONN	5
FRANCE	CERGY_PONT	CERGY_PONT	2
FRANCE	CHAMBERY	CHAMBERY	10
FRANCE	CHARTRES	CHARTRES	2
FRANCE	CHAUMONT	CHAUMONT	7
FRANCE	CHERBOURG	CHERBOURG	3
FRANCE	CLERMON FERRAND	CLERMON-FE	4
FRANCE	COLMAR	COLMAR	45
FRANCE	CRETEIL	CRETEIL	2
FRANCE	DIGNE	DIGNE	10
FRANCE	DIJON	DIJON	7
FRANCE	EPINAL	EPINAL	7
FRANCE	EVIAN	EVIAN	31
FRANCE	EVREUX	EVREUX	17
FRANCE	EVRY	EVRY	2
FRANCE	FLORAC	FLORAC	4
FRANCE	FOIX	FOIX	5
FRANCE	GAP	GAP	10
FRANCE	GRENOBLE	GRENOBLE	10
FRANCE	GUERET	GUERET	4
FRANCE	LA ROCHELL	LA ROCHELL	1
FRANCE	LA_ROCHE_S	LA_ROCHE_S	1

FRANCE	LAON	LAON	17
FRANCE	LAVAL	LAVAL	3
FRANCE	LE HAVRE	LE HAVRE	17
FRANCE	LE MANS	LE MANS	2
FRANCE	LILLE	LILLE	6
FRANCE	LIMOGES	LIMOGES	1
FRANCE	LONS_LE_S	LONS_LE_S	7
FRANCE	LORIENT	LORIENT	3
FRANCE	LYON	LYON	9
FRANCE	MACON	MACON	9
FRANCE	MARSEILLE	MARSEILLE	8
FRANCE	MELUN	MELUN	2
FRANCE	MENDE	MENDE	4
FRANCE	METZ	METZ	7
FRANCE	MILLAU	MILLAU	4
FRANCE	MONT_MARSAN	MONT_DE_MA	0
FRANCE	MONTAUBAN	MONTAUBAN	0
FRANCE	MONTELMAR	MONTELMAR	8
FRANCE	MONTLUCON	MONTLUCON	4
FRANCE	MONTPELLIER	MONTPELLIE	5
FRANCE	MULHOUSE	MULHOUSE	45
FRANCE	NANCY	NANCY	7
FRANCE	NANTERRE	NANTERRE	2
FRANCE	NANTES	NANTES	3
FRANCE	NEVERS	NEVERS	2
FRANCE	NICE	NICE	43
FRANCE	NIMES	NIMES	8
FRANCE	NIORT	NIORT	1
FRANCE	ORLEANS	ORLEANS	2
FRANCE	PARIS	PARIS	2
FRANCE	PAU	PAU	0
FRANCE	PERIGUEUX	PERIGUEUX	0
FRANCE	PERPIGNAN	PERPIGNAN	5
FRANCE	POITIERS	POITIERS	1
FRANCE	PRIVAS	PRIVAS	8
FRANCE	PUY_VELAY	PUY_EN_VEL	4
FRANCE	REIMS	REIMS	2

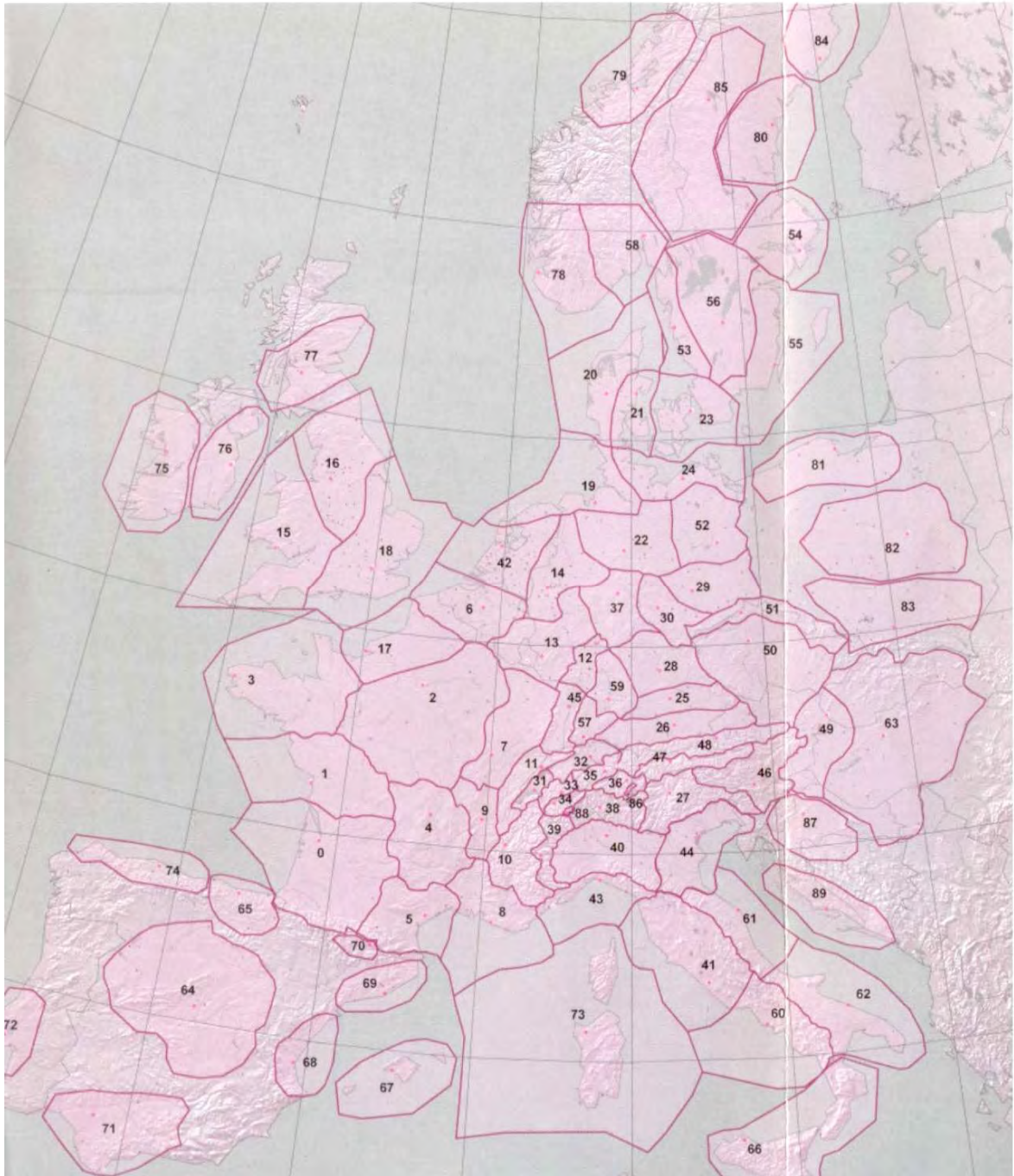
FRANCE	RENNES	RENNES	3
FRANCE	RODEZ	RODEZ	4
FRANCE	ROUEN	ROUEN	17
FRANCE	SEDAN	SEDAN	13
FRANCE	ST_BRIEUC	ST_BRIEUC	3
FRANCE	ST_FLOUR	ST_FLOUR	4
FRANCE	ST_TROPEZ	ST_TROPEZ	8
FRANCE	ST-ETIENNE	ST-ETIENNE	4
FRANCE	STRASBOURG	STRASBOURG	45
FRANCE	TARBES	TARBES	0
FRANCE	TOULON	TOULON	8
FRANCE	TOULOUSE	TOULOUSE	0
FRANCE	TOURS	TOURS	2
FRANCE	TROYES	TROYES	2
FRANCE	VALENCE	VALENCE	9
FRANCE	VERSAILLES	VERSAILLES	2
FRANCE	VESOUL	VESOUL	7
H/HUNGARY	BUDAPEST*	BUDAPEST*	63
H/HUNGARY	DEBRECEN*	DEBRECEN*	63
H/HUNGARY	GYÖR	GYÖR	49
H/HUNGARY	MISKOLC*	MISKOLC*	63
H/HUNGARY	PECS*	PECS*	63
H/HUNGARY	SIOFOK*	SIOFOK*	63
H/HUNGARY	SZEGED*	SZEGED*	63
H/HUNGARY	SZOLNOK*	SZOLNOK*	63
H/HUNGARY	TATABANYA*	TATABANYA*	63
HR/CROATIA	OSIJEK*	OSIJEK*	87
HR/CROATIA	RIJEKA	RIJEKA	44
HR/CROATIA	SPLIT*	SPLIT*	89
HR/CROATIA	ZAGREB*	ZAGREB*	87
I / ITALY	ALESSANDRIA	ALESSANDRI	40
I / ITALY	ANCONA*	ANCONA*	61
I / ITALY	AOSTA	AOSTA	39
I / ITALY	BARI*	BARI*	62
I / ITALY	BERGAMO	BERGAMO	40
I / ITALY	BOLOGNA	BOLOGNA	44
I / ITALY	BOLZANO	BOLZANO	27

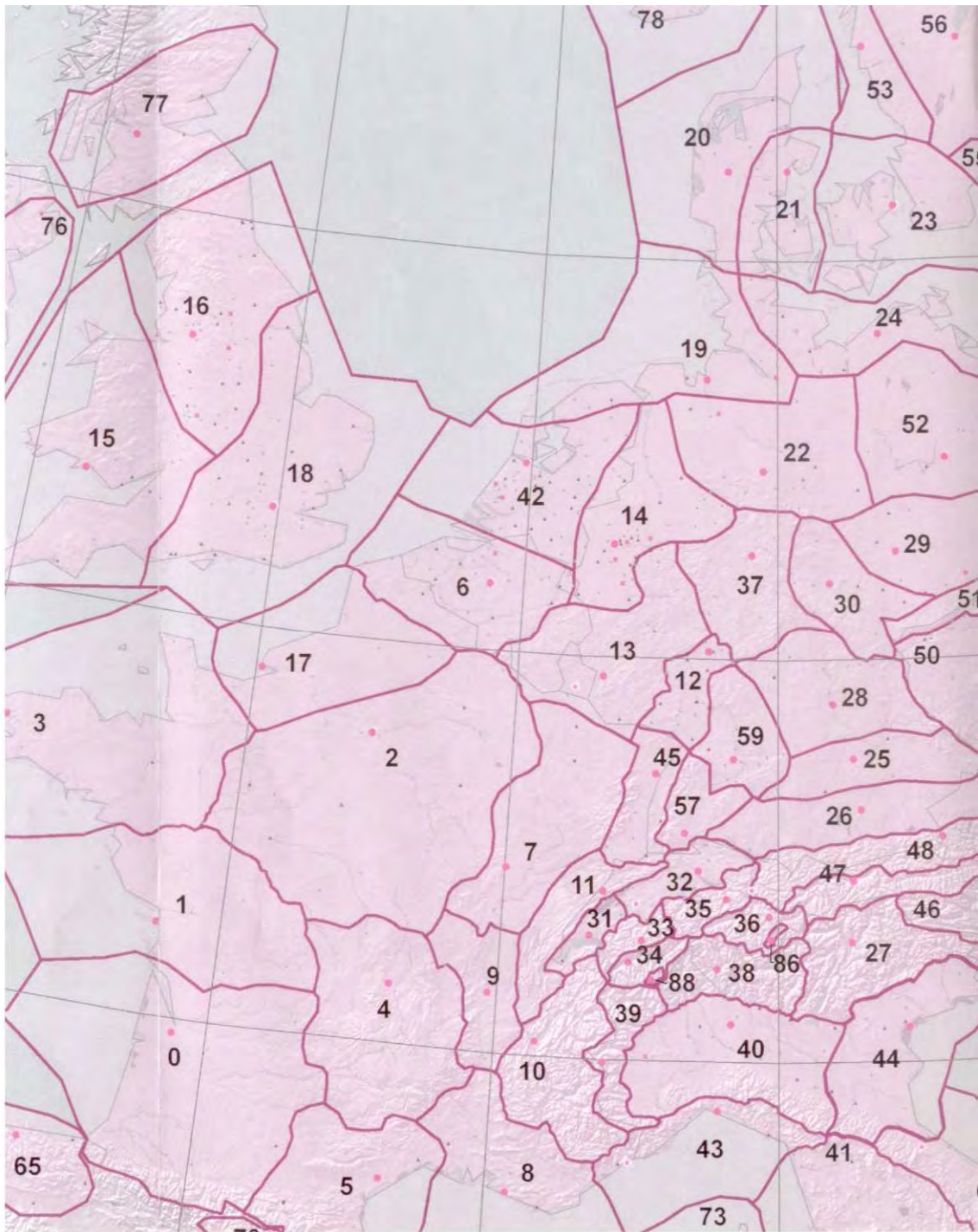
I / ITALY	BRESCIA	BRESCIA	40
I / ITALY	CAGLIARI*	CAGLIARI*	73
I / ITALY	CATANIA*	CATANIA*	66
I / ITALY	COSENZA*	COSENZA*	66
I / ITALY	EDOLO	EDOLO	38
I / ITALY	FIRENZE	FIRENZE	41
I / ITALY	FOGGIA*	FOGGIA*	62
I / ITALY	GENOVA	GENOVA	43
I / ITALY	LA SPEZIA	LA SPEZIA	43
I / ITALY	LECCE*	LECCE*	62
I / ITALY	MERANO	MERANO	27
I / ITALY	MESSINA*	MESSINA*	66
I / ITALY	MILANO	MILANO	40
I / ITALY	NAPOLI*	NAPOLI*	60
I / ITALY	PALERMO*	PALERMO*	66
I / ITALY	PARMA	PARMA	40
I / ITALY	PERUGIA	PERUGIA	41
I / ITALY	PESCARA*	PESCARA*	61
I / ITALY	PIACENZA	PIACENZA	40
I / ITALY	PISA	PISA	41
I / ITALY	REGGIO CALABRIA*	R.CALABRIA*	66
I / ITALY	RIMINI	RIMINI	44
I / ITALY	ROMA	ROMA	41
I / ITALY	SAN_MARINO*	SAN_MARIN*	61
I / ITALY	SAN_REMO	SAN_REMO	43
I / ITALY	SASSARI*	SASSARI*	73
I / ITALY	SESTRIERE	SESTRIERE	39
I / ITALY	SIENA	SIENA	41
I / ITALY	TORINO	TORINO	40
I / ITALY	TRENTO	TRENTO	27
I / ITALY	TRIESTE	TRIESTE	44
I / ITALY	UDINE	UDINE	44
I / ITALY	VENEZIA	VENEZIA	44
I / ITALY	VERONA	VERONA	40
IRELAND	CORK*	CORK*	75
IRELAND	DUBLIN*	DUBLIN*	76
IRELAND	GALWAY*	GALWAY*	75

IRELAND	LIMERICK*	LIMERICK*	75
LUX	LUXEMBOURG	LUXEMBOURG	13
MONACO	MONACO	MONACO	43
N / NORWAY	BERGEN*	BERGEN*	78
N / NORWAY	DRAMMEN	DRAMMEN	58
N / NORWAY	FREDRIKSTADEN	FREDRIKST.	58
N / NORWAY	OSLO	OSLO	58
N / NORWAY	STAVANGER*	STAVANGER*	78
N / NORWAY	TØNSBERG	TØNSBERG	58
N / NORWAY	TRONDHEIM*	TRONDHEIM*	79
NL/NETHERL	AMSTERDAM	AMSTERDAM	42
NL/NETHERL	ARNHEM	ARNHEM	42
NL/NETHERL	ASSEN	ASSEN	42
NL/NETHERL	DEN HAAG	DEN HAAG	42
NL/NETHERL	DEN HELDER	DEN HELDER	19
NL/NETHERL	EINDHOVEN	EINDHOVEN	42
NL/NETHERL	GRONINGEN	GRONINGEN	19
NL/NETHERL	HAARLEM	HAARLEM	42
NL/NETHERL	LEEWARDEN	LEEWARDEN	19
NL/NETHERL	LELYSTAD	LELYSTAD	42
NL/NETHERL	MAASTRICHT	MAASTRICHT	6
NL/NETHERL	MIDDELBURG	MIDDELBURG	6
NL/NETHERL	ROTTERDAM	ROTTERDAM	42
NL/NETHERL	S.HERTOGENBOSCH	S.HERTOGENB	42
NL/NETHERL	TERNEUZEN	TERNEUZEN	6
NL/NETHERL	TEXEL	TEXEL	19
NL/NETHERL	UTRECHT	UTRECHT	42
NL/NETHERL	ZWOLLE	ZWOLLE	42
P/PORTUGAL	LISBOA*	LISBOA*	72
PL/POLAND	BIALYSTOK*	BIALYSTOK*	82
PL/POLAND	BIELSKO*	BIELSKO*	83
PL/POLAND	GDANSK*	GDANSK*	81
PL/POLAND	KATOWICE*	KATOWICE*	83
PL/POLAND	KIELCE*	KIELCE*	83
PL/POLAND	KRAKOW*	KRAKOW*	83
PL/POLAND	LODZ*	LODZ*	82
PL/POLAND	LUBLIN*	LUBLIN*	82

PL/POLAND	OLSZTYN*	OLSZTYN*	81
PL/POLAND	POZNAN	POZNAN	52
PL/POLAND	RZESZOW*	RZESZOW*	83
PL/POLAND	SZCZECIN*	SZCZECIN*	63
PL/POLAND	TORUN*	TORUN*	82
PL/POLAND	WALBRZYCH	WALBRZYCH	51
PL/POLAND	WARSZAWA*	WARSZAWA*	82
PL/POLAND	WROCLAW	WROCLAW	29
PL/POLAND	ZAKOPANE*	ZAKOPANE*	83
S/SWEDEN	BORAS	BORAS	56
S/SWEDEN	BORGHOLM	BORGHOLM	55
S/SWEDEN	FALUN*	FALUN*	85
S/SWEDEN	GÄVLE	GÄVLE	54
S/SWEDEN	GÖTEBORG	GÖTEBORG	53
S/SWEDEN	HALMSTAD	HALMSTAD	53
S/SWEDEN	JÖNKÖPING	JÖNKÖPING	56
S/SWEDEN	KALMAR	KALMAR	55
S/SWEDEN	KARLSTAD	KARLSTAD	56
S/SWEDEN	LINKÖPING	LINKÖPING	55
S/SWEDEN	MALMÖ	MALMÖ	23
S/SWEDEN	ÖREBRO	ÖREBRO	56
S/SWEDEN	ÖSTERSUND*	ÖSTERSUND*	85
S/SWEDEN	STOCKHOLM	STOCKHOLM	54
S/SWEDEN	SUNDSVALL*	SUNDSVALL*	80
S/SWEDEN	UMEA*	UMEA*	84
S/SWEDEN	UPPSALA	UPPSALA	54
S/SWEDEN	VÄSTERAS	VÄSTERAS	54
S/SWEDEN	VISBY	VISBY	55
SK/SLOVAKI	BRANSKA*	BRANSKA*	63
SK/SLOVAKI	BRATISLAVA	BRATISLAVA	49
SK/SLOVAKI	KOSICE*	KOSICE*	63
SK/SLOVAKI	TRENCIN	TRENCIN	49
SLOVENIA	LJUBLJANA	LJUBLJANA	46
SLOVENIA	MARIBOR	MARIBOR	46
SLOVENIA	NOVA GORIC	NOVA GORIC	44
UK	ABERDEEN*	ABERDEEN*	77
UK	BELFAST*	BELFAST*	76

UK	BIRMINGHAM	BIRMINGHAM	16
UK	BLACKPOOL	BLACKPOOL	16
UK	BOURNEMOUT	BOURNEMOUT	18
UK	BRIGHTON	BRIGHTON	18
UK	BRISTOL	BRISTOL	15
UK	CAMBRIDGE	CAMBRIDGE	18
UK	CARDIFF	CARDIFF	15
UK	DOVER	DOVER	18
UK	EDINBURGH*	EDINBURGH*	77
UK	EXETER	EXETER	15
UK	GLASGOW*	GLASGOW*	77
UK	HOLYHEAD	HOLYHEAD	15
UK	IPSWICH	IPSWICH	18
UK	ISLE_OF_MAN*	ISLE_O_MA*	77
UK	JERSEY	JERSEY	3
UK	KINGSTON	KINGSTON	18
UK	LEEDS	LEEDS	16
UK	LEICESTER	LEICESTER	16
UK	LIVERPOOL	LIVERPOOL	16
UK	LONDON	LONDON	18
UK	MANCHESTER	MANCHESTER	16
UK	MIDDLESBROUGH	MIDDLESBRO	16
UK	NEWCASTLE	NEWCASTLE	16
UK	NORTHAMPTON	NORTHAMPTO	18
UK	NORWICH	NORWICH	18
UK	NOTTINGHAM	NOTTINGHAM	16
UK	OXFORD	OXFORD	18
UK	PLYMOUTH	PLYMOUTH	15
UK	PORTSMOUTH	PORTSMOUTH	18
UK	READING	READING	18
UK	SHEFFIELD	SHEFFIELD	16
UK	SOUTHAMPTON	SOUTHAMPTO	18
UK	ST_DAVIDS	ST_DAVIDS	15
UK	SWANSEA	SWANSEA	15
V/VATICANO	VATICANO	VATICANO	41





1.6 CRITICAL WEATHER MESSAGE IN 10 LETTERS SHORT FORM IN DIFFERENT LANGUAGES

English	English Short Form in Information Window	German	German Short Form in Information Window
HEAVY WEATHER	HEAVY.WEATH.	SCHWERES WETTER	UNWETTER
HEAVY WEATHER day	HEAVY.WEATH.	SCHWERES WETTER TAG	UNWETTER T
HEAVY WEATHER night	HEAVY.WEATH.	SCHWERES WETTER NACHT	UNWETTER N
STORM	STORM	STURM	STURM
STORM DAYTIME	DAY.STORM	STURM AM TAGE	STURM.TAG
STORM NIGHTTIME	NIGHT.STORM	STURM NACHTS	STURM.NACHT
STRONG GUST DAYTIME	DAY.GUST	AM TAG BÖIGER WIND	WINDBÖE.T
STRONG GUST NIGHTTIME	NIGHT.GUST	NACHTS BÖIGER WIND	WINDBÖE.N
FREEZING RAIN A.M.	FROZEN.RAIN	EISREGEN VORMITTAGS	EISREGEN
FREEZING RAIN P.M.	FROZEN.RAIN	EISREGEN NACHMITTAGS	EISREGEN
FREEZING RAIN NIGHTTIME	FROZEN.RAIN	EISREGEN NACHTS	EISREGEN
FINE PARTICLES PM10	PARTICLES	FEINSTAUB PM10	FEINSTAUB
OZONE	OZONE	OZON	OZON
IRRADIATION	IRRATE	RADIOAKTIVE STRAHLUNG	RA. STRAHL.
FLOOD	FLOOD	HOCHWASSER	HOCHWASSER
DENSE FOG	DENSE FOG	DICHTER NEBEL	NEBEL
HEAVY RAIN	HEAVY RAIN	STARKE REGENFÄLLE	ST. REGEN
HEAVY RAIN	HEAVY RAIN	STARKE NIEDERSCHLÄGE	ST. NIEDERS.
HEAVY SNOWFALL	HEAVY SNOW	STARKE SCHNEEFÄLLE	ST. SCHNEE
HEAVY THUNDERSTORM	THUNDER	STARKE GEWITTER	ST.GEWITTER
STRONG UV	STRONG UV	STARKE UV-STRALUNG	ST. UV-STR.
DENSE FOG DAYTIME	DENSE FOG	TAGS DICHTER NEBEL	NEBEL_T
HEAVY RAIN DAYTIME	RAIN	TAGS STARKER REGEN	REGEN_T
HEAVY RAIN DAYTIME	RAIN	TAGS STARKER NIEDERSCHL.	NIEDERS_T
HEAVY SNOWFALL DAYTIME	HEAVY SNOW	TAGS STARKE SCHNEEFÄLLE	ST.SCHNEE_T
THUNDERSTORM DAYTIME	THUNDER	TAGS STARKE GEWITTER	GEWITTER_T
DENSE FOG NIGHTTIME	DENSE FOG	NACHTS DICHTER NEBEL	NEBEL_N
HEAVY RAIN NIGHTTIME	HEAVY RAIN	NACHTS STARKER REGEN	REGEN_N
HEAVY RAIN NIGHTTIME	HEAVY RAIN	NACHTS STARK.NIEDERSCHL.	NIEDERS_N
HEAVY SNOWFALL NIGHT	HEAVY SNOW	NACHTS STARK.SCHNEEFALL	ST.SCHNEE_N

THUNDERSTORM NIGHTTIME	THUNDER	NACHTS STARKE GEWITTER	GEWITTER_N
FOEHN	FOEHN	FÖHN	FÖHN
BISE	BISE	BISE	BISE
MISTRAL	MISTRAL	MISTRAL	MISTRAL
SCIROCCO	SCIROCCO	SCIROCCO	SCIROCCO
TRAMONTANA	TRAMONTANA	TRAMONTANA	TRAMONTANA

Dutch (Niederlandisch)	Dutch Short Form in Information Window	Spanish	Spanish Short Form in Information Window
ZWAAR WEER	ZWAAR WEER	AVISO METEOROLOGICO	AVIS_METEO
ZWAAR WEER OVERDAG	ZW WEER_D	AVISO METEOROLOGICO DIA	AVIS.MET_D
ZWAAR WEER'S NACHTS	ZW WEER_N	AVISO METEOROLOG. NOCHE	AVIS.MET_N
STORM	STORM	TEMPORAL	TEMPORAL
STORM OVERDAG	STORM_D	TEMPORAL dia	TEMPORAL_D
STORM'S NACHTS	STORM_N	TEMPORAL POR LA NOCHE	TEMPORAL_N
WINDSTOTEN OVERDAG	WINDST_D	RACHAS FUERTES DIA	RACHAS_F_D
WINDSTOTEN'S NACHTS	WINDST_N	RACHAS FUERTES NOCHE	RACHAS_F_N
IJZEL IN DE OCHTEND	IJZEL_O	LLUVIA HELADA MANANA	LLUV.HEL_M
IJZEL IN DE MIDDAG	IJZEL_M	LLUVIA HELADA TARDE	LLUV.HEL_T
IJZEL IN DE NACHT	IJZEL_N	LLUVIA HELADA NOCHE	LLUV.HEL_N
FIJNE DEELTJES PM10	FIJNSTOF	POLVO FINO PM10	POLVO_FINO
OZON	OZON	OZONO	OZONO
RADIOACTIEVE STRALING	RAD ACT ST	RADIACION RADIOACTIVA	RADIA.RADIO
HOOGWATER	HOOGWATER	INUNDACION	INUNDACION
DICHTE MIST	D MIST	NIEBLA DENSA	NIEB_DENSA
ZWARE REGEN	ZW REGEN	LLUVIAS FUERTES	LLUVIAS_F
ZWARE NEERSLAG	ZW REGEN	PRECIPITACIONES FUERTES	PRECIPIT.FU
ZWARE SNEEUWVAL	ZW SNEEUW	NEVADAS FUERTES	NEVAD.FUER
ZWARE ONWEERSBUIEN	ZW ONWEER	TORMENTAS FUERTES	TORMENT_FU
STERKE UV STRALING	ST UV STR	RADIACION UV FUERTE	RAD_UV-FUE
DICHTE MIST OVERDAG	D MIST_O	NIEBLA DENSA DIA	NIEB.DEN_D
ZWARE REGEN OVERDAG	ZW REGEN_O	LLUVIA FUERTE DIA	LLUV.FUE_D
ZWARE NEERSLAG OVERDAG	ZW REGEN_O	PRECIPITAC. FUERTES DIA	PRECIP.F_D

ZWARE SNEEUWVAL OVERDAG	ZW SNEEUW	NEVADAS FUERTES DIA	NEV.FUER_D
ZWAAR ONWEER OVERDAG	ZW ONWEER	TORMENTA FUERTE DIA	TORMEN.F_D
DICHTE MIST'S NACHTS	D MIST_N	NIEBLA DENSA NOCHE	NIEB.DEN_N
ZWARE REGEN'S NACHTS	ZW REGEN_N	LLUVIA FUERTE NOCHE	LLUV.FUE_N
ZWARE NEERSLAG'S NACHTS	ZW REGEN_N	PRECIPIT. FUERTES NOCHE	PRECIP.F_N
ZWARE SNEEUW'S NACHTS	ZW SNEEUW	NEVADA FUERTE NOCHE	NEV.FUER_N
ZWAAR ONWEER'S NACHTS	ZW ONWEER	TORMENTA FUERTE NOCHE	TORMEN.F_N
FÖHN	FÖHN	FOEHN	FOEHN
BISE	BISE	BISE	BISE
MISTRAL	MISTRAL	MISTRAL	MISTRAL
SCIROCCO	SCIROCCO	SCIROCCO	SCIROCCO
TRAMONTANA	TRAMONTANA	TRAMONTANA	TRAMONTANA

	Italian Short Form in Information Window		French Short Form in Information Window	Swedish Short Form in Information Window
CONDIZIONI DIFFICILI	COND ESTR	TEMPS LOURD	TEMPS.LOURD	KRIT. VÄDER
CONDIZIONI DIFFICILI GIORNO	COND EST G	TEMPS LOURD JOUR	TEMPS.LOURD	KRI. VÄD. D
CONDIZIONI DIFFIC.NOTTE	COND EST N	TEMPS LOURD NUIT	TEMPS.LOURD	KRI. VÄD. N
TEMPESTA	TEMPESTA	TEMPETE	TEMPETE	STORM
TEMPESTA DIURNA	TPS DIURNA	TEMPETE JOUR	TEMPETE	STORM D
TEMPESTA NOTT.	TPS NOTT.	TEMPETE NUIT	TEMPETE	STORM N
FORTI RAFFICHE DIURNE	RAFF.DIURN	RAFALES VIOLENTES JOUR	VIOLENTES	VINDBYAR D
FORTI RAFFICHE NOTT.	RAFF.NOTT	RAFALES VIOLENTES NUIT	VIOLENTES	VINDBYAR N
PIOGGIA GELIDA MATT.	NEVISCHIO	PLUIE VERGLACANTE MATIN	PLUIE_VER	IS/REGN FM
PIOGGIA GELIDA POMERID.	NEVISCHIO	PLUIE VERGLA.APRES-MIDI	PLUIE_VER	IS/REGN EM
PIOGGIA GELIDA NOTT.	NEVISCHIO	PLUIE VERGLACANTE NUIT	PLUIE_VER	IS/REGN N
POLVERI FINI RESPIRAB.	POLV.FINI	POUSSIÈRE FINE PM10	FINE_PM10	STOFT PM10
OZONO	OZONO	OZONE	OZONE	OZON
RADIOATTIVITA	RADIAZIONI	IRRADIATION	IRRATE	STRALNING
INONDAZIONE	INONDAZ.	INONDATION	INONDATION	FLOD
FITTA NEBBIA	NEBBIA	BROUILLARD EPAIS	BROUILLARD	TÄTDIMMA
FORTE PIOGGIA	PIOGGIA	FORTE PLUIE	FORTE.PLUIE	KRAFT.REGN
FORTI PRECIPIT.	PRECIP INT	FORTE PLUIE	FORTE.PLUIE	KRAFT.REGN

FORTE NEVICATA	NEVICATA	FORTE CHUTE NEIGE	FORTE.NEIGE	KR. SNÖFALL
FORTE TEMPORALE	TEMPORALE	ORAGE VIOLENT	ORAGE VOIL.	KRAFT.ASKV
FORTI IRRADIAZIONI UV	HIGH UV	FORTE IRRADIATION UV	FORTE UV	HÖG UV STR
FITTA NEBBIA DIURNA	NEBBIA DR	BROUILLARD EPAIS JOUR	BROUILL_J	TÄTDIMMA D
FORTE PIOGGIA DIURNA	PIOGGIA DR	FORTE PLUIE JOUR	FORTE.PLU_J	KR.REGN D
FORTI PRECIPITAZ. DIUR.	PRECIP INT	FORTE PRECIPIT. JOUR	FORTE.PRE_J	KR.REGN D
TEMPESTA DI NEVE DIURNA	TPS NEVE D	FORTE CHUTE NEIGE JOUR	FORTE.NEIGE	KR. SNÖ D
FORTE TEMPORALE DIURNO	TPR DIURNO	ORAGE VIOLENT JOUR	ORAGE	ASKVÄDER
FITTA NEBBIA NOTT.	NEBBIA NOT	BROUILLARD EPAIS NUIT	BROUILL_N	TÄTDIMMA N
FORTE PIOGGIA NOTT.	PIOGGIA N	FORTE PLUIE NUIT	FORTE.PLU_N	KR. REGN N
FORTI PRECIPITAZ. NOTT.	TPR NOTT	FORTE PLUIE NUIT	FORTE.PLU_N	KR. REGN N
FORTE NEVICATA NOTT.	NEVE INT	FORTE CHUTE NEIGE NUIT	FORTE.NEI_N	KR. SNÖ N
FORTE TEMPORALE NOTT.	TPR NOTT	ORAGE VIOLENT NUIT	ORAGE_N	ASKVÄDER
FOEHN	FOEHN	FOEHN	FOEHN	FÖHN
BISE	BISE	BISE	BISE	BISE
MISTRAL	MAESTRALE	MISTRAL	MISTRAL	MISTRAL
SCIROCCO	SCIROCCO	SCIROCCO	SCIROCCO	SCIROCCO
TRAMONTANA	TRAMONTANA	TRAMONTAGNE	TRAMONTAGN	TRAMONTANA

1.7 SETUP MANUL IN 10 LETTERS SHORT FORM IN DIFFERENT LANGUAGES

English	English Short Form in Information Window	German	German Short Form in Information Window	Dutch (Niederlandisch)	Dutch Short Form in Information Window
SEARCH SIGNAL	SEARCH SIG.	SUCHE SIGNAL	SUCHE SIG.	SIGNAAL ZOEKEN	SIGN ZKN
SELECT CITY	CITY	STADT EINSTELLEN	STADT.EINST.	STAD INSTELLEN	STAD INST
SELECT COUNTRY	COUNTRY	LAND EINSTELLEN	LAND EINST.	LAND INSTELLEN	LAND INST
TIME ZONE	ZONE	ZEITZONE	ZONE	TIJD ZONE	ZONE
HOURS	HR	STUNDEN	H	UREN	HR
RECEPTION TEST	SCAN	EMPFANGSTEST	EMPF. TEST	SIGNAAL TEST	SIGN TEST
CONTRAST.	CONTRAST.	KONTRAST.	KONTRAST.	DISPLAY CONTRAST.	CONTRAST.
MEMORY FULL	MEM.FULL	SPEICHER VOLL	SPEICHER_V	GEHEUGEN VOL	GEH VOL
exit setmode	EXIT	Einstellung vorgenommen	EINST. VORG.	INSTELLEN VERLATEN	INST VERL

Spanish	Spanish Short Form in Information Window	Italian	Italian Short Form in Information Window
BUSCAR UNA SENAL	BUSCAR.SEN	RICERCA SEGNALE	SEARCH
SELECCIONAR LA CIUDAD	SELEC.CIUD	SCELTA DELLA CITTA	S.CITTA'
SELECCIONAR EL PAIS	SELEC.PAIS	SCELTA DEL PAESE	S.PAESE
ZONA HORARIA	ZONA	ZONA ORARIA	ZONA
HORAS	HR	ORE	HR
PRUEBA DE RECEPCION	PRUEB.REC	PROVA RICEZIONE	PROVA RX.
CONTRAST.	CONTRAST.	CONTRASTO	CONTRST.
MEMORIA POR COMPLETO	MEMO_COMP	MEMORIA PIENA	MEM PIENA
AJUSTE REALIZADO	AJUST.REAL	REGOLAZIONE FATTA	SALVATO

French	French Short Form in Information Window	Swedish Short Form in Information Window
CHERCHE SIG	CHERCHE.SIG	SÖK SIGNAL
CHOIX DE LA VILLE	CHOIX_VILL	VÄLJ STAD
CHOIX DU PAYS	CHOIX_PAYS	VÄLJ LAND
FUSEAU HORAIRE	FUSEAU	ZONE
HRS	H	HR
TEST DE RECEPTION	TEST_REC	MOTT. TEST
CONTRASTE.	CONTRASTE.	KONTRAST.
MEMOIRE PLEINE	MEM PLEIN	MEM. FULLT
REGLAGE EFFECTUE	REGLAGE.EFF	EXIT SETM.

Section 2

Setting Up Wireless Indoor/Outdoor measuring device For Wind, Rain, Thermo-hygrometer and the atmosphere pressure

2.0 INTRODUCTION

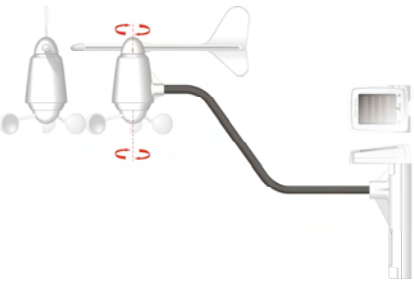
Main Unit

It measures indoor temperature and humidity, and displays weather data collected by the remote weather sensors. It also provides indication of the indoor/outdoor temperature, pressure and humidity trends, and moon phase.

The main console unit stores around 3000 weather records without a computer connection. When linked to a computer using the USB cable and software provided, the records from wireless measuring devices can be displayed and saved onto the computer.

Wireless Outdoor Measuring Devices

The remote weather sensors include a thermo-hygrometer, anemometer (wind sensor) and rain sensor. All data collected by the sensors is transmitted to the main unit by wireless RF. The weather station supports a maximum of 5 thermo-hygrometers, allowing 5 channels of temperature/humidity display. Contents of the Wireless Outdoor Measuring Devices are listed as below.

	Hardware Components	Fittings
	Thermo-Hygro Sensor	
	Rain Sensor: -Funnel shaped Lid with Battery Hatch -Sensor Base -Bucket See-saw Mechanism -Protective Screen	4 screws for securing unit to ground
	Anemometer (Solar Cell Wind Sensor): -Wind Cups -Wind Vane - Anemometer arm - Anemometer base	4 screws for securing unit to vertical surface
	Computer Software	2m (6ft) USB cable

2.1 Features of Wireless In/Outdoor Measuring Devices

Pressure

- Current or historical pressure (mBar/ hPa, mmHg or inHg)
- Altitude or sea level pressure adjustment for atmospheric pressure compensation
- Sea-level pressure history for the last 24 Hours
- Sea-level pressure history bar chart

Moon phase

- 12 steps of moon symbols
- Scans moon phase for year 2000 to 2099
- Moon phase history for the last or future 39 days

Remote temperate and relative humidity, with trend indication

- Indoor and outdoor temperature and relative humidity display (°C or °F)
- Temperature and relative humidity trend indication
- Dew point display
- Max and Min memory for temperature and relative humidity

Comfort level indicator

- Analyzes current environmental conditions (Comfort, Wet and Dry)

Rainfall measurement

- Records rainfall amount for the last hour, last 24 hours, last day, last week and last month (inch or mm).
- Daily rainfall alert if rainfall for the current day exceed pre-specified amount.

Wind

- Temperature at place of anemometer.
- Temperature adjusted to wind chill factor. (°C or °F)
- Wind direction compass display. Wind direction angles available as compass points or bearings.
- Average wind speed and gust speed (mph, m/s, knots, and km/h)
- Daily Maximum wind speed and gust speed memory.
- Wind speed alert for average wind speed and wind gust speed.

Memory Functions

- Stores 3000 weather records (without a computer connection) with memory saving intervals (1 hr default).
- USB port for connection to computer to allow upload of weather records.

2.2 Installing your weather station

Setting up the Remote Weather Sensors

Before starting up the main console unit, setup all the remote sensors first.

When placing the sensors, make sure that they are within receiving range of the console unit. Ideally they should be within the line of sight of the Main Unit. Transmission range may be affected by trees, metal structures and electronic appliances. Test reception before permanently mounting your weather station.

Also make sure that the sensors are easily accessible for cleaning and maintenance.

The remote sensors should be cleaned on a weekly basis, since dirt and debris will affect sensor accuracy.

2.2.1 Setting up the Thermo-Hygro Sensor(s)

1. Open the latch at the base of the thermo-hygro sensor.
2. Set the channel with a slide switch.
3. Insert 2 x UM-3 or "AA" size 1.5V batteries.
4. Use a pin to press the "RESET" key which is in the battery compartment of thermo-hygro sensors.
5. Replace the latch and mount unit at desired location.

Placement tips:

- The thermo-hygro sensor should be in an area with free air circulation and sheltered from direct sunlight and other extreme weather conditions. Place the unit in a shaded area, such as under a roof.
- Use the wall mount and fittings provided if mounting the unit on a vertical surface.
- Avoid placing the sensor near sources of heat such as chimneys.
- Avoid any areas which collect and radiate heat in the sun, such as metal, brick or concrete structures, paving, patios and decks.
- Ideally, place the sensor above natural surfaces such as a grassy lawn.
- The international standard height for measurements of air temperature is at 1.25m (4 ft) above ground level.

2.2.2 Setting up the Rain Sensor

1. Unlock the funnel-shaped top of the rain sensor by turning both knobs on the sides of the rain sensor in an anti-clockwise direction.
2. Lift the top off the base and insert 2 x UM-3 or "AA" size 1.5V batteries into the battery holder.
3. Replace the lid and secure into place by turning the knobs clockwise.
4. Place the rain sensor in a location such that precipitation can fall directly into the sensor, ideally 2-3 ft above the ground.

It may be secured into place by using the four screws provided.

5. The sensor must be accurately level for optimum performance. To check if the sensor is level, remove the lid and check if the ball bearing inside is at the midpoint of the leveler. Additionally, a bubble level or carpenter's level may be used.
6. Attach the protective screen onto the top of the lid. The screen will prevent any debris entering the sensor.

Placement tips:

- The rain sensor should be placed in an open area away from walls, fences, trees and other coverings which may either reduce the amount of rainfall into the sensor, deflect the entry of wind-blown rain, or create extra precipitation runoff. Trees and rooftops may also be sources of pollen and debris.
- To avoid rain shadow effects, place the sensor at a horizontal distance corresponding to two to four times the height of any nearby obstruction.
- It is important that rain excess can flow freely away from the sensor. Make sure that water does not collect at the base of the unit.
- The rainfall measurement mechanism utilizes a magnet, hence do not place any magnetic objects around the proximity of the sensor.

2.2.3 Setting up the Anemometer (Solar cell wind sensor)

1. Assemble the wind cups to the anemometer arm
2. Attach the assembled anemometer to the base.
3. Remove the 4 x screws on the battery compartment.
4. To plug the re-chargeable battery (For Solar cell purpose) according to the polarities shown
5. Insert 2 x UM-3 or "AA" size 1.5V batteries (For Backup purpose) into the battery holder in the base.
6. Mount the anemometer onto a vertical surface, using the fittings provided.
7. To allow the main console unit to find the direction which the wind vane is oriented, the following procedures are required:
 - i. Insert the re-chargeable battery and 2xUM-3 or "AA" size 1.5V batteries
 - ii. Point the wind vane towards the north. Use a compass or map if necessary.
 - iii. Use a pin to press the "SET" key which is in the battery compartment of the wind sensor.

Note: Above procedure must be repeated for changing battery.

The "SET" will toggle the direction between two mode:

1. Let the wind direction as manufacturer design. It will be as a default setting after
 2. Set the current direction as NORTH.
8. Replace the battery compartment door and secure its screws.

Placement tips:

- Check that wind can travel freely around the anemometer and is not distorted by nearby buildings, trees or other structures.
- For better results, place the anemometer at least 3m above local structures and obstacles. The ground creates a frictional effect to wind flow and will attenuate readings.

- Aim for maximum exposure of the anemometer to the commonest wind directions in your area.
- The official mounting location for anemometers is 10m (33 ft) above ground level in a clear unobstructed location.

2.2.4 Setting up the Main Unit

You are highly recommended to connect the AC/DC adaptor. For the feature of the automatic backlight control function, the AC/DC adaptor must be used.

Placement tips:

Make sure that the Main Unit is within receiving range of all remote sensors. Ideally sensors should be within the line of sight of the console unit. Transmission range may be affected by trees, metal structures and electronic appliances. Test reception before permanently mounting your weather station.

The Main Unit measures indoor temperature, humidity, pressure and receives signals from all remote sensors and radio-clock broadcasts. Avoid placing the console unit in the following areas:

- Direct sunlight and surfaces which radiate and emit heat.
- Near heating and ventilation devices, such as heating ducts or air conditioners.
- Areas with interference from wireless devices (such as cordless phones, radio headsets, baby listening devices) and electronic appliances.

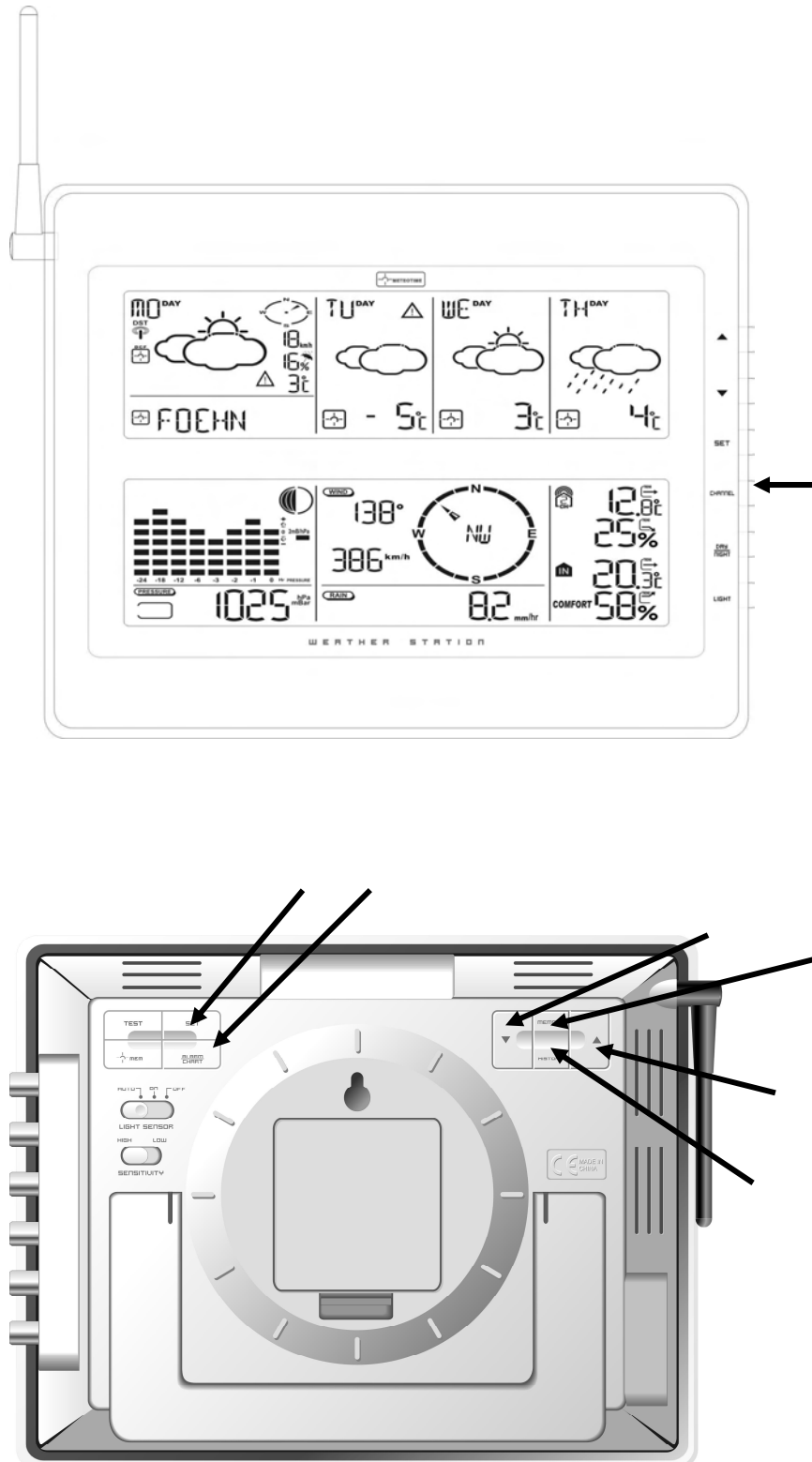
Starting up the Main Unit

Once the console unit is properly powered, the display will start showing some data and weather parameters. Wait for a few minutes for the console to finish self-calibration and for the sensor readings to show up.

If "—" is still displayed for the sensor reading(s), check the wireless transmission path and the batteries for the corresponding sensor.

2.3 Buttons and Controls

There are total 6 buttons at the backside of main Unit and 1 button at the right side on main station for setting up the Wireless In/Outdoor Measuring Devices for Wind, Rain, Thermohygrometer, Pressure and Moon Phase, namely:



▲	-Switches to next mode in anti-clockwise direction -Increment for setting parameters
▼	-Switches to next mode in clockwise direction -Decrement for setting parameters
SET	-Rotates display for current mode -Press and hold to enter setup or change units -Confirmation for setting parameters
MEMORY	-Shows records for moon phase, temperature, humidity, rain and wind.
HISTORY	-Shows history for sea-level pressure
ALARM/CHART	-Shows alerts for temperature, rain and wind. -Press and hold to enter alarm/alert setup
CHANNEL	-Changes temperature and humidity display to selected channel -Press and hold to enable cycling display of channel temperature and humidity

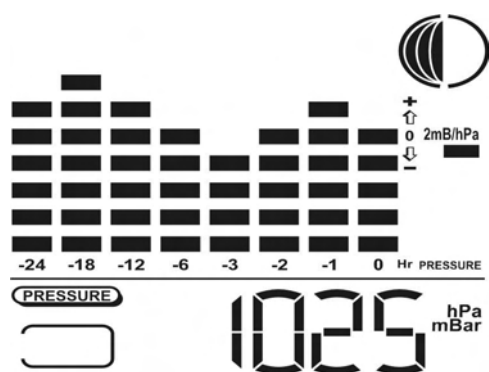
2.4 Navigating between Different Modes

To navigate between the different modes from the main console unit, press [▲] or [▼] to cycle through the modes in a clockwise direction or anti-clockwise direction respectively.

To navigate between the different modes from the remote control, press the corresponding button(s), or press UP to cycle through the modes in a clockwise direction or DOWN to cycle through the modes in an anti-clockwise direction.

2.4.1 Pressure Mode

- Current pressure, trend, and history bar-chart
- Moon phase



2.4.2 Temperature and Humidity Mode



- Temperature and humidity trend and readings for indoor and selected channel
- Comfort level
- Dew point
- Temperature alerts



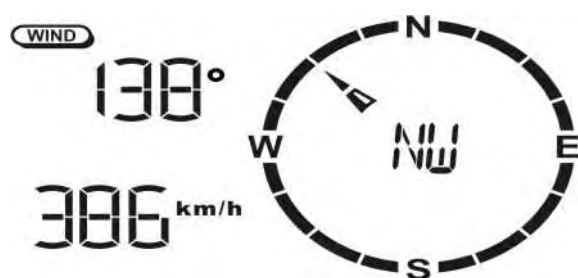
2.4.3 Rain Mode

- Precipitation amount for last hour, last 24 hour, yesterday, last week and last month
- Rainfall alert



2.4.4 Wind Mode

- Wind Chill
- Temperature at place of anemometer
- Wind direction
- Wind speed
- Wind gust
- Alert for wind speed and wind gust speed



Customizing your Weather Station

To fully customize the weather station to your local settings and personal preferences, the following settings are required. Please refer to the appropriate sections for detailed instructions as below.

Required:

- Setting Pressure Parameters during Initial Start-Up (Pressure Mode)

Optional:

- Setting up the Temperature Alerts (Temperature and Humidity Mode)
- Setting up the Daily Rainfall Alerts (Rain Mode)
- Setting up the Wind Alerts (Winds Mode)

2.5 Setting Pressure Parameters during Initial Start-Up

This part of the display indicates the current pressure, sea level pressure, and moon phase.

A number of historical statistics can also be viewed, such as the sea-level pressure values for the last 24 hours, moon phase for the previous and next 39 days, as well as a pressure history bar-chart.

Pressure values may be displayed inHg, hPa/mBar or mmHg, and altitude values may be displayed in meters or feet.

Accessing Pressure Mode

From the main console unit: [▲] or [▼] until the icon  starts flashing.

Setting Pressure Parameters during Initial Start-Up

During the initial start-up of the Main Unit, the pressure settings should be configured in following steps.

1. Choose Pressure Units:
The unit icon "inHg" or "mmHg" or "hPa/mBar" should be flashing. [▲] or [▼] to select pressure unit as inHg, hPa/mBar or mmHg
Press [SET] to confirm your selection.
2. Choose Altitude Units:
Press [▲] or [▼] to select altitude unit as feet or meters.
Press [SET] to confirm your selection.
3. Set Altitude:
[▲] or [▼] to adjust value. Press and hold either button for fast advance.
Press [SET] to confirm your selection.
4. Upon completion the display will be returned to Pressure and Weather Forecast Mode.

Note: After initial start-up the altitude cannot be adjusted immediately

Viewing Pressure and Altitude Data

In Pressure Mode, each press of [SET] rotates display between:

- Sea level pressure
- Local pressure
- Local altitude

Setting the Sea Level Pressure

1. In Pressure Mode, press [SET] until the sea level pressure is displayed.
2. Press and hold [SET]. The Sea Level Pressure display should be flashing.
3. Set Sea Level Pressure:
[▲] or [▼] to adjust value. Press and hold either button for fast advance.

Press [SET] to confirm your selection.

4. Upon completion the display will be returned to Pressure Mode.

Setting the Pressure and Altitude Units

1. Set Local Pressure Units:
press [SET] until local pressure is displayed
Press and hold [MEMORY]
[▲] or [▼] to adjust value.
Press [MEMORY] to confirm your selection.
2. Set Altitude Units:
press [SET] until Altitude is displayed
Press and hold [MEMORY]
[▲] or [▼] to adjust value.
Press [MEMORY] to confirm your selection.
3. Set Sea-Level Pressure Units:
press [SET] until Sea-Level pressure is displayed
Press and hold [MEMORY]
[▲] or [▼] to adjust value.
Press [MEMORY] to confirm your selection.

Viewing the Sea Level Pressure History

1. In all modes, pressing [HISTORY] will toggle the sea level pressure display.
2. When sea level pressure is displayed, press [HISTORY] repeatedly to view sea level pressure data for each of the last 24 hours.
3. If no buttons are pressed for 5s, the display automatically show the current pressure.

Viewing the Pressure/ Temperature/ Humidity Bar-Charts

The bar chart on the display can be configured to display data for sea-level pressure, temperature or humidity for channel 1.

In pressure mode, press and hold ALARM/CHART to toggle the bar-chart between:

- Sea level pressure ("PRESSURE" should be displayed)
- Temperature (Thermometer icon and "CH1" should be displayed)
- Humidity (RH icon and "CH1" should be displayed)

Viewing Moon Phase History and Forecast

1. In Pressure Mode, press [MEMORY].
2. "+ 0 days" should be flashing.
3. View Moon Phase History / Forecast:
[▲] or [▼] to choose number of days forward (+ days) or backward (- days) from current date. Press and hold either button for fast advance.
The corresponding moon phase will be shown.
4. To exit, press [MEMORY].
Otherwise, if no buttons are pressed for 5s the display automatically returns to Pressure and Weather Forecast Mode.

Understanding the Moon Phase Diagram



FULL



LAST



NEW



FIRST

2.6 Indoor and Outdoor Temperature and Humidity

The weather station supports up to 5 remote thermo-hygrometer sensors, each sensor corresponding to a separate channel for the temperature and relative humidity display. The temperature may be shown in degrees Celsius °C or degrees Fahrenheit °F. The trend (rising, steady or falling) of all values is also indicated on the display.

The Main Unit uses the indoor temperature and humidity data to compute a comfort level rating of Wet, Comfort or Dry.

A temperature alert function is available for each channel. It can be programmed to sound if the channel temperature exceeds or falls below the pre-configured upper and lower limits.

Note: The temperature alerts have a 0.5 °C hysteresis to prevent the alerts from sounding constantly due to small fluctuations near the alert value. This means that after the temperature reaches the alert value, it will have to fall below the alert value plus the hysteresis to deactivate the alert.

Accessing Temperature and Humidity from different Wireless outdoor Thermohygrometer

From the Main Unit: Press [▲] or [▼] until the IN icon on the upper right of the display starts flashing.

Viewing Temperature and Humidity Display for each Channel

For Static Display:

In Temperature and Humidity Mode, each press of [CHANNEL] rotates display between different channels.

For Cycling Display:

To enable automatic rotating between different channel displays, press and hold [CHANNEL], until the ⌚ icon is displayed. Each valid channel will now be alternately displayed for 5s.

Rotating Between Temperature and Dew Point Display

Each press of [SET] rotates temperature display between:

- Temperature and Relative Humidity
- Dew Point Temperature and Relative Humidity

Setting Units for Temperature Display (°C or °F)

Press and hold [SET] to convert units between degrees Celsius °C and degrees Fahrenheit °F.

Activating/Deactivating the Temperature Alerts

1. In Temperature and Humidity Mode, each press of [ALARM/CHART] rotates channel temperature display between:
 - Current Temperature for corresponding channel
 - Upper Temperature Alert (displays OFF if deactivated): ▲ icon displayed
 - Lower Temperature Alert (displays OFF if deactivated): ▼ icon displayed

2. When the above alerts are displayed, Pressing [▲] or [▼] will activate/deactivate the corresponding alert.

Setting up the Temperature Alerts

1. In Temperature and Humidity Mode, press [ALARM/CHART] to select alarm which you wish to configure.
2. Press and hold [ALARM/CHART] until channel temperature, and [▲] or [▼] icon starts flashing in the display.
3. Set Value for Temperature Alert:
Press [▲] or [▼] to adjust value. Press and hold either button for fast advance.
Press [ALARM/CHART] to confirm your selection.
4. Upon completion the display will be returned to the temperature alert selection screen.

Disabling when Temperature Alarms are Activated

To Disable Temperature Alarm(s):

Press [ALARM/CHART] to disable the alarm (s).

Viewing the Max/Min Channel Temperature and Humidity

Each press of [MEMORY] rotates channel temperature and humidity display between:

- Current temperature and humidity at remote sensor
- Minimum temperature and humidity at remote sensor
- Maximum temperature and humidity at remote sensor

Resetting the Max/Min Channel Temperature and Humidity Memory

Press and hold [MEMORY] to clear memory for all channels.

Remote Sensor Status

The wave icon above the current channel display shows the connection status of the corresponding remote sensor:

Icon	Status
	Searching for remote sensor signals
	Corresponding remote sensor successfully linked
	No signals received for more than 15 minutes

Activating Main Console Unit to Search for All Remote Sensor Signals

The main console unit may be manually activated to search for signals from all remote sensors.

Press and hold [▼] to enforce a search.

2.7 Wireless Outdoor Rain Gauge

The Main Unit records the total amount of rainfall for the last hour, last 24 hours, yesterday, last week and last month.

The rainfall may be displayed in mm or inches.

A daily rainfall alert function is available which can be programmed to sound if the daily rainfall exceeds a pre-configured limit.

Accessing Rain Gauge Reading

From the main console unit: Press [▲] or [▼] until the RAIN icon on the display starts flashing.

Viewing Rain Statistics

Each press of [SET] or [MEMORY] rotates display between different rain statistics:

- Last hour
- Last 24 hour
- Yesterday
- Last week
- Last month

Tip: For an estimation of the rain rate, the Last Hour rainfall value can be understood as "inch/hr" or "mm/hr".

Resetting the Rainfall Statistics Memory

Press and hold [MEMORY] to reset all rainfall statistics.

Setting Units for Rain Display (inch or mm)

Press and hold [SET] to convert units between mm and inches.

Activating/Deactivating the Daily Rainfall Alert

1. Each press of [ALARM/CHART] rotates display between the current rainfall statistics and the daily rainfall alert ("ALARM HI" will be displayed).
If the alert is deactivated, "OFF" will be shown, otherwise the rainfall alert value is shown.
2. When the rainfall alert is displayed, pressing [▲] or [▼] will activate/deactivate it.

Setting up the Daily Rainfall Alert

1. Press [ALARM/CHART] to display rainfall alert.
2. Press and hold [ALARM/CHART] until rainfall alert and "ALARM HI" starts flashing in the display.
3. Set Value for Rainfall Alert:
Press [▲] or [▼] to adjust value. Press and hold either button for fast advance.
Press [ALARM/CHART] to confirm your selection.
4. Upon completion the display will be returned to the rainfall alert display.

Disabling when Daily Rainfall Alert is Activated

To Disable Rainfall Alert:

Press [ALARM/CHART] to disable the alert.

2.8 Wireless Outdoor Anemometer (Solar Cell Wind Sensor)

The wind direction is shown by an animated compass display. Its angle can be displayed as compass points (i.e. NW) or in bearings from the north (i.e. 22.5°).

The upper left of the wind display can be set to indicate the temperature at the anemometer or the temperature adjusted with a wind chill factor.

The lower left of the wind display indicates the average wind speed for the last 10 minutes, as well as gust, wind speed alert and gust alert information. It can also show records of the maximum values of wind speed and gust attained for the current day.

The wind speed and gust alert functions can be programmed to sound if the wind speed or gust exceeds a pre-configured limit. The wind speed may be displayed in km/h, mph, m/s or knots.

Note: The wind speed alert has a 5 mph hysteresis and the wind gust speed alert has a 7 mph hysteresis. The hysteresis is to prevent the alerts from sounding constantly due to small fluctuations near the alert value. This means that after the wind speed reaches the alert value, it will have to fall below the alert value plus the hysteresis to deactivate the alert.

Accessing Wind Mode

Press [▲] or [▼] until the WIND icon on the display starts flashing.

Configuring Wind Display

Each press of [SET] rotates display between:

- Temperature with wind chill, wind direction in bearings
- Temperature with wind chill, wind direction in compass points
- Temperature at anemometer, wind direction in compass points
- Temperature at anemometer, wind direction in bearings

Setting Units for Wind Speed Display (km/h , mph, m/s or knots)

Press and hold [SET] to convert wind speed units between km/h, mph, m/s or knots.

Viewing Wind Statistics

Each press of [MEMORY] rotates wind speed display between:

- Current wind speed
- Daily maximum wind speed ("DAILY MAX" is displayed)
- Gust speed ("GUST" is displayed)
- Daily maximum gust speed ("GUST DAILY MAX" is displayed)

Resetting the Wind Statistics Memory

Press and hold [MEMORY] to reset all wind statistics.

Activating/Deactivating Wind Alerts

1. Each press of [ALARM/CHART] rotates wind speed display between:

- Current wind speed
- Wind speed alert ("ALARM HI" displayed)
- Gust alert ("GUST ALARM HI" displayed)

If the alert is deactivated, "OFF" will be shown, otherwise the alert value is shown.

2. When a wind alert is displayed, pressing [▲] or [▼] will activate/deactivate it.

Setting up the Wind Alerts

1. Press [ALARM/CHART] to select alarm which you wish to configure.
2. Press and hold [ALARM/CHART] until alert and corresponding icon starts flashing in the display.
3. Set Value for Alert:

Press [▲] or [▼] to adjust value. Press and hold either button for fast advance.

Press [ALARM/CHART] to confirm your selection.
4. Upon completion the display will be returned to the wind alert selection screen.

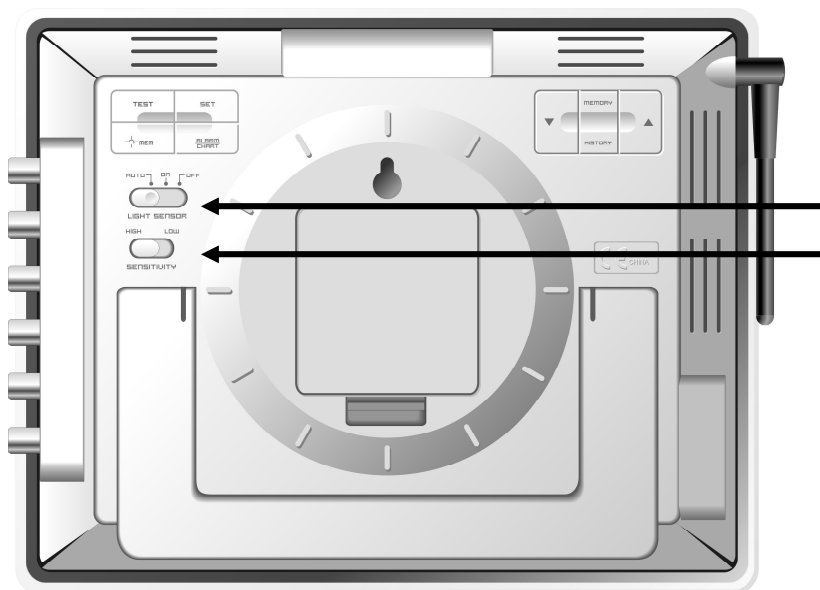
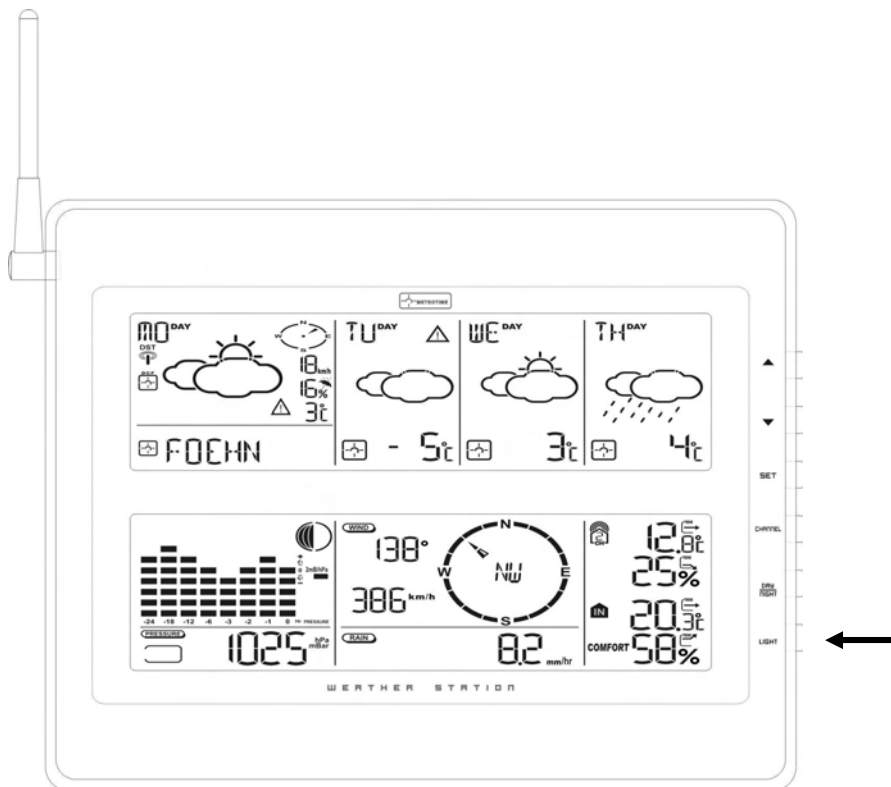
Disabling when Wind Alert is Activated

To Disable Wind Alert:

Press [**ALARM/CHART**] to disable the alert.

3 LED Backlight Options

The backlight of the Main Unit can be turned permanently on/off or automatically toggled when environment lighting level is low. Use the light sensor switch at the back of the unit to select lighting preferences.



For the automatic backlight function, the sensitivity of the light sensor can be adjusted to high or low with the

sensitivity switch also on the back of the Main Unit

Note: Main Unit must be powered with AC/DC adaptor for automatic backlight control function

4 Linking the Weather Station to a Computer

Data collected by the weather station can be displayed and recorded on a computer by connecting the main console unit with the computer via USB.

Install the software provided with the weather according to the instructions on the software manual.

Connect the Main Unit with the computer using the USB cable provided.

5 Maintenance

Changing Batteries

If the low battery indicators light up, replace the batteries for the corresponding unit immediately.

Changing Batteries for the Remote Sensors

1. Replace the batteries following the setup instructions for the corresponding sensor.
2. When the batteries are properly installed, the sensor will resume sending signals to the main console unit.
To enforce a search immediately for all remote signals, press and hold [▼] located at the back of the Main Unit.

Cleaning

The Main Unit and outer casings for the remote sensors can be cleaned with a damp cloth. Small parts can be cleaned with a cotton tip or pipe-cleaner.

Never use any abrasive cleaning agents and solvents. Do not immerse any units with electronic parts in water or under running water.

Anemometer

-Check that the wind vane and wind cups can spin freely and are free from dirt, debris or spider webs.

Rain Gauge

Like all rain gauges, the rain sensor is prone to blockages due to its funnel shape. Checking and cleaning the rain sensor from time to time will maintain the accuracy of rain measurements.

-Detach the protective screen and lid. Remove any dirt, leaves or debris by cleaning the items with soapy water and a damp cloth. Clean small holes and parts with a cotton tips or pipe-cleaner.

-Look out for spiders or insects that might have crawled into the funnel.

-Also clean the swinging mechanism with a damp cloth.

Troubleshooting

“The display shows dashes “---” for weather parameter(s)”

The display will show “---” when the wireless link is lost with the remote sensor for the following periods:

Thermo-hygro Sensor	– 15 minutes
Anemometer (Wind Sensor)	– 15 minutes
Rain Sensor	– 30 minutes

Check or replace the batteries for the corresponding sensor. Then press and hold [▼] located at the back of the Main Unit to enforce a search for all remote signals.

If the above does not solve the problem, check the wireless transmission path from the corresponding sensor to the main console unit and change their locations if necessary.

Although wireless signals can pass through solid objects and walls, the sensor should ideally be within the line of sight of the console unit.

The following may be the cause of reception problems:

- Distance between remote sensor and main console unit too long.
- Signal shielding materials such as metal surfaces, concrete walls or dense vegetation in the path of transmission.
- Interferences from wireless devices (such as cordless phones, radio headsets, baby listening devices) and electronic appliances.

PRECAUTIONS

This product is engineered to give you years of satisfactory service if you handle it carefully. Here are a few precautions:

1. Do not immerse the unit in water.
2. Do not clean the unit with abrasive or corrosive materials. They may scratch the plastic parts and corrode the electronic circuit.
3. Do not subject the unit to excessive force, shock, dust, temperature or humidity, which may result in malfunction, shorter electronic life span, damaged battery and distorted parts.
4. Do not tamper with the unit's internal components. Doing so will invalidate the warranty on the unit and may cause unnecessary damage. The unit contains no user-serviceable parts.
5. Only use fresh batteries as specified in the user's manual. Do not mix new and old batteries as the old ones may leak.
6. Always read the user's manual thoroughly before operating the unit.

CAUTION

- The content of this manual is subject to change without further notice.
- Due to printing limitation, the displays shown in this manual may differ from the actual display.
- The contents of this manual may not be reproduced without the permission of the manufacturer.

6 Technical Specifications

Receiver (Supply=6.0V, Ta=23°C)	and Sensor unit (Supply=3.0V, Ta=23°C)
RF Transmission Frequency	434 MHz
RF Reception Range	
Thermo-hygro Sensor	100 meters Maximum (Line of Sight)
Wind Sensor, Rain Sensor	30 meters Maximum (Line of Sight)
Barometric Pressure Range	500 hpa to 1100hpa (14.75 inHg to 32.44 inHg), (At sea level) (374.5 mmHg to 823.8 mmHg)
Altitude Compensation Range	-200m to +5000 m (-657 ft to 16404 ft)
Barometric Pressure resolution	0.1 hpa (0.003 inHg, 0.08 mmHg)
Barometric Pressure accuracy	+/- 5 hpa (0.015 inHg, 0.38 mmHg)
Outdoor Temperature Display Range -40°C to	80°C (-40°F to 176°F)
Indoor Temperature Display Range	-9.9°C to 60°C (14.2°F to 140°F)
Operating Temperature	-5°C to 50°C (23°F to 122°F)
Storage Temperature	-20°C to 70°C(-4°F to 158°F)
Temperature accuracy	+/- 1°C or +/- 2°F
Temperature resolution	0.1°C or 0.2°F
Humidity Display Range	0% to 99%
Humidity accuracy	+/-5% (within 25% - 80%)
Humidity resolution	1%
Receiving Cycle	
Remote Thermo./Hygro.	around 47s
Rain gauge	183s
Wind sensor	33s
Wind Direction Range	16 positions
Wind Direction Accuracy	+/-11.25°
Wind Direction Resolution	22.5°
Wind Direction Starting Threshold	3mph
Wind Speed Range	0 to 199.9mph (199.9 Km/h, 173.7 Knots, 89.3 m/s)
Wind Speed Accuracy	+/- (2mph + 5%)
Wind Speed Starting Threshold	3mph
Wind/Gust Speed Disply Update Interval	33 seconds
Wind/Gust Sampling Interval	11 seconds
1h/24h/yesterday Rainfall Range	0.0 to 1999.9 mm (78.73 inch)
Last week/ last month Rainfall Range	0 to 19999 mm (787.3 inch)
Temperature Sensing Cycle (indoor)	10s
Humidity Sensing Cycle (indoor)	10s

Hardware Requirement for running PC software *WeatherView*

Operating System: Windows 98 se or above

Memory: Ram 32 M byte or more

Hard disk: 20 M byte free space or more

Optical Device: 2x CD-Rom drive

Power

Main unit : use 4 pcs UM-3 or "AA" 1.5V battery

: AC/DC adaptor 7.5V 200mA (centre +)

Remote Thermo.-Hygro unit : use 2 pcs UM-3 or "AA" 1.5V battery

Remote Anemometer unit : use 2 pcs UM-3 or "AA" 1.5V battery

Remote Rain gauge unit : use 2 pcs UM-3 or "AA" 1.5V battery

Product : DV928 (470 cities)

This product contains the approved transmitter and complies with the essential requirements of Article 3 of the R&TTE 1999/5/EC Directives, if used for its intended use and that the following standard(s) has/have been applied:

(Article 3.2 of the R&TTE Directive)

applied standard(s) **EN 300 220-2 V2.1.2 (2007-06)**

(Article 3.1.b of the R&TTE Directive)

applied standard(s) **EN 301 489-3 V1.4.1 (2002-08)**

applied standard(s) **EN 60950-1 : 2006**

Additional information:

The product is therefore conform with the Low Voltage Directive 73/23/EC, the EMC Directive 89/336/EC and R&TTE Directive 1999/5/EC (appendix II) and carries the respective CE marking.

R&TTE Compliant Countries :

All EU countries, Switzerland **CH**

And Norway **N**

